

CATALOGUE 2021

KITS, CALIBRATORS & CONTROLS FOR HPLC, GC, GC-MS, LC-MS/MS

"Over twenty years of service in clinical laboratories"

eureka **kit**

eureka **tox**

eureka **lyo**

pro **training**
ASSISTANCE

June 2021





"Over twenty years of service in clinical laboratories"



Company Profile

Twenty years ago, Dr. Gilberto Coppa and Dr. Stefano Sartori decided to pursue a professional path that few companies had developed.

To help doctors to properly formulate a diagnosis, they asked some laboratories about their problems and issues.

After collecting information relative to the problems arising from the use of amperometric and coulometric detectors they decided to "create"

Eureka Lab Division Research and Development Team

In order to be able to continuously meet clinical needs, the company has for several years been working with the

"Study Group of External Authors"

The company mission is:

TO SIMPLIFY, IMPROVE, STANDARDIZE

the analytical procedures existing in special clinical chemistry laboratories, thanks to the realization of

READY TO USE KITS

using HPLC, GC, GC-MS, LC-MS/MS chromatographic techniques.

The aim is to guarantee that clinical doctors:

- Formulate a correct diagnosis of illnesses
- Optimize pharmaceutical therapy
- Prevent the onset of some illnesses

The company vision is to become :

The World's Technical and Scientific Reference for all Clinical Biochemistry Laboratories that use Analytical Chromatography and Mass Spectrometry





For clinical laboratories that need to analyze and quantify endogenous molecules, drugs, biomarkers or others substances in a biological matrix (urine, plasma, serum, saliva, hair), Eureka kits are ready to use kits that are applied to chromatographic techniques (HPLC, GC, GC/MS, LC-MS/MS).

Eureka produces the most diversified portfolio of diagnostic kits for Special Clinical Chemistry, Therapeutic Drug Monitoring (TDM), Occupational Toxicology and Forensic Toxicology in the world.

They can **Solve Problems** present in clinical laboratories related to:

the use of **IMMUNOCHEMICAL/RIA METHODS**

- Inaccurate and insensitive analytical techniques
- Limited budget to expand the analytical panel
- Only a limited number of analysis run with one instrument

The use of **HOME BREW METHODS**

- Long pre-analytical preparations and analysis time
- Limited productivity
- High cost for some analysis
- Issues in managing suppliers of raw material and accessories
- Lack of reproducibility of analytical data
- Difficult interpretation of chromatograms
- Issues related to data conversion into report

It is also important to mention that the Chromatographic Analytical Techniques as well as the Immunometric ones can be

Automated

by utilizing preparators / purificators or even robots that can be linked (if necessary) directly to both liquid and gaseous chromatographs.



applied to the Chromatographic instruments
(HPLC, GC-GC/MS, LC /MS)

GUARANTEE



Straightforward and Quick Sample Preparation



Robust, Fast and Reliable CE-IVD methods



Multiparametric run, with option to be Automatized



Time and Cost Optimization



Stability for 3 years



Post sales service and training courses



Lyophilized calibrators in matrix which are necessary to build the calibration curve are ALWAYS included in the Kit. These are used to calibrate the Chromatographic System for the quantitative measurement of the analyte contained in them. Each analyte has a concentration such as to allow the construction of a calibration curve on one point. These calibrators are lyophilized in human matrix and must be handled as if they were the patient sample itself.

There are also available **lyophilized Controls** in human matrix on bilevel or trilevel concentration mix solution, for monitoring and evaluating the fit of the calibration curve and the analytical session. These controls are used for internal quality control and serve to maintain the accuracy and precision of the analytical procedures dedicated to the quantitative determination of the analytes contained therein. They should be handled as if they were the patient sample itself.

The deuterated **Internal Standards (IS)** enclosed in the kits applied to LC-LC/MS are also supplied as Mix Solution.

A complete kit contains all reagents required to perform a single chromatographic run (buffer solution, derivatization and deproteinization solution, internal standards, calibrator, SPE-columns, wash and conditioning solution)

A single kit allows the execution of 50, 100, 200 or 500 tests and it can be applied to any conventional chromatographic system.

Additionally, **accessories and consumable products** (supplied by Agilent, Thermo Fisher, Restek) **are available separately**.

Eureka Lab Division operates in a Quality System Certified **ISO 9001:2015** and **ISO 13485:2016**.

Eureka products are registered with the Ministry of Health of Italy.

All Eureka kits are **IVD** and **CE** marked.

MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.:
CERT-14671-2004-AQ-ROM-SINCERT

Data prima emissione/Initial date:
03 agosto 2004

Validità:/Valid:
10 giugno 2019 - 10 giugno 2022

Si certifica che il sistema di gestione di/This is to certify that the management system of

EUREKA S.r.l. - Lab Division

Via Enrico Fermi, 25 - 60033 Chiaravalle (AN) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Qualità/
has been found to conform to the Quality Management System standard:

ISO 9001:2015

Questa certificazione è valida
per il seguente campo applicativo:

Progettazione, produzione e commercializzazione di kit pronti all'uso e liofilati in matrice umana di utilizzo clinico in vitro (IVD) per cromatografia liquida e gassosa. Commercializzazione di strumentazione preparativa ed analitica, di accessori e consumabili applicati alla farmaco/tossicologia clinica e forense e alla chimica clinica speciale (EA: 19, 12, 29)

This certificate is valid
for the following scope:

Design, production and trade of in vitro diagnostic medical devices for HPLC and GC: kit ready to use and lyophilized human matrix calibrators/controls. Trade of preparative and analytical instrumentation, accessories and consumables applied to drug / clinical toxicology and forensic and special clinical chemistry (EA: 19, 12, 29)

Luogo e Data/Place and date:
Vimercate (MB), 19 aprile 2019



SGQ N° 003 A
SGA N° 003 D
SGE N° 007 M
SCR N° 004 F

FINAS N° 009 P
PRD N° 003 B
PRS N° 004 C
SSI N° 002 G

Membro di MLA EA per gli schemi di accreditamento
SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAP
per gli schemi di accreditamento SGQ, SGA, SSI, PSN
e PRD e di MLA ILAC per gli schemi di accreditamento
LAB, MED, LAT e ISP

Per l'Organismo di Certificazione/
For the Certification Body
DNV GL - Business Assurance
Via Energy Park, 14 - 20871 Vimercate
(MB) - Italy

Zeno Beltrami
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DNV GL Business Assurance Italia S.r.l., Via Energy Park, 14 - 20871 Vimercate (MB) - Italy. TEL:039 68 99 905. www.dnvgl.it

MANAGEMENT SYSTEM CERTIFICATE

Certificato no./Certificate No.:
137423-2013-AQ-ITA-ACCREDIA

Data prima emissione/Initial date:
12 giugno 2013

Validità:/Valid:
10 giugno 2019 - 10 giugno 2022

Si certifica che il sistema di gestione di/This is to certify that the management system of

EUREKA S.r.l. - Lab Division

Via Enrico Fermi, 25 - 60033 Chiaravalle (AN) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione/
Has been found to conform to the Management System standard:

ISO 13485:2016

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Traceability of calibrators

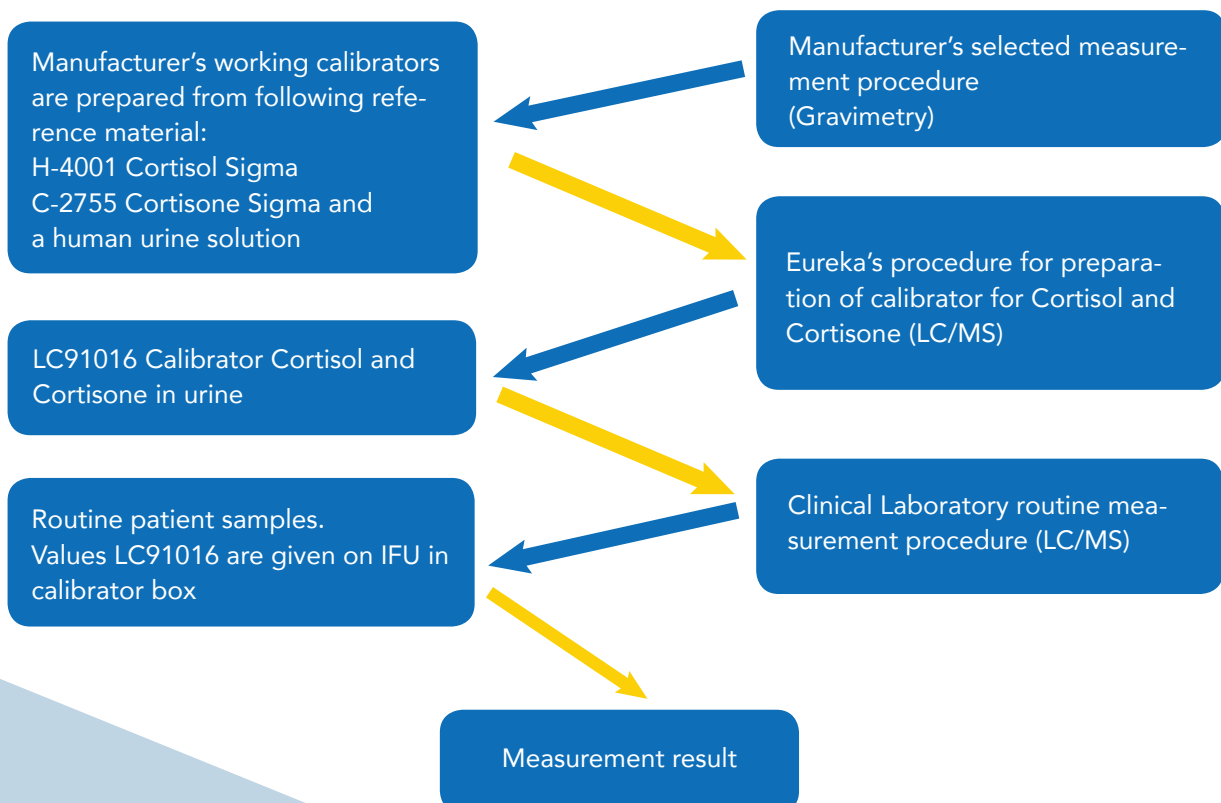
Eureka Lab Division offers the widest range in the market of traceable calibrators for chromatography and mass spectrometric IVD applications. By guaranteeing the traceability of our calibrators we ensure results used for patients' care are accurate, comparable over time and location. Our full compliance with ISO norms is the best guarantee of data reliability for our users. The quality documentation provided upon request complements customers documentation during accreditation.

All our calibrators are linked through our good manufacturing practices (GMP) to reference standards of higher order. Our calibrators are exclusively manufactured from reference standards of the highest order: European Reference Material (ERM), Certified Reference Material (CRM) or the Manufacturer's Certified Reference Standards.

If necessary and upon request, Eureka Lab offers to all its customers additional support material by documenting the traceability chain with internal manufacturing documentation CoA (Certificate of Analysis) that precisely links the calibrator to the reference standard of higher order.

The final proof of the quality of our products is a result of the compulsory participation of Eureka Lab to External Quality Assurance Schemes that we successfully conduct every year. Results of these VEQs can also be supplied to our customers upon request or can be downloaded from our website.

This is an example of the traceability chain for LC91016 Cortisol/Cortisone Calibrator:



Guidelines on transport and storage conditions

Eureka Lab Division assures that all its products are stable during the transportation for at least 2 weeks from the date of shipment.

Upon receipt of the goods, the distributor or the customer must store the product at the temperature that is indicated on the external label. For storage, the receiver must be able to manage 3 different storage temperatures:

-20°C	freezer
2-8°C	fridge
~20°C	Controlled Temperature

Please, note:

1. Products that need to be stored at -20°C will be shipped in an ice pack for additional precaution. However, even in case the distributor or the customer receives the material with melted ice pack, the integrity and suitability of the material will not be affected for 2 weeks from the date of shipment.
2. Eureka Lab Division declines any responsibility in case the travelling takes more than 2 weeks.
3. Only in the event that the product, received within two weeks from the date of shipment, proves to be non-compliant in practice, Eureka Lab Division is willing to replace the product upon verification of non-compliance.

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The blue items are accessories and consumable products available separately

The yellow items are Eureka exclusive

Extractive method refers to SPE Extraction

Special clinical chemistry

Here, with the expression "Special Clinical Chemistry", we refer to the analysis of endogenous molecules in body fluids.

Blood and urine are the most commonly tested matrices for the determination and quantification of different compounds, like glucose, lipids, proteins, hormones, enzymes and many others.

For this aim, several techniques, such as spectrophotometry, immunoassays, and electrophoresis are available (ref. <https://www.news-medical.net/life-sciences/Clinical-Chemistry>).

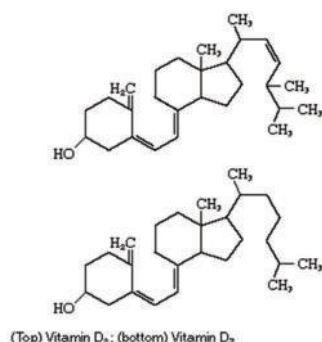
Eureka kits are ready to use kits applied to chromatographic analytical techniques by using several matrices such as urine, plasma, serum, whole blood.

Some of the molecules that need to be analyzed are steroid hormones because any increase or decrease of their level can be the consequence of impaired functioning of endocrine glands.

We developed a kit which offers several advantages such as Chromatographic run of 8 minutes and the method does not require an SPE.

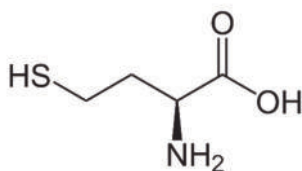
Another important molecule whose plasmatic concentration needs to be monitored is **Vitamin D**.

It plays a very important role in the mineralization of bone and in the maintenance of skeletal integrity. Moreover, patients with cystic fibrosis present vitamin D deficiency, frequently. This can be due to pancreatic exocrine insufficiency and to altered metabolism of Vitamin D. (Ref Chesdachai_VitD).



taken from <https://www.britannica.com/science/vitamin-D>

The monitoring of **homocysteine** is also essential because it plays a role in the development of cardiovascular disease (Ref Ganguly 2015).



Structure of homocysteine
taken from Ganguly_2015

Its name is due to the similarity to cysteine.

According to several studies, homocysteine in plasma in healthy individuals ranges from 5.0 and 15.0 $\mu\text{mol/L}$ or 5.0-12.0 $\mu\text{mol/L}$ if analyzed by HPLC or immunoassays, respectively.

The term hyperhomocysteinemia refers to a high level of homocysteine in the blood that is over 15.0 $\mu\text{mol/L}$.

This abnormality can be due to genetic mutations of the enzymes implicated in homocysteine metabolism or to the environmental factor.

The hyperhomocysteinemia occurs in patients with chronic renal impairment or with atherothrombotic vascular disease (Ref Ganguly 2015).

Eureka kits represent a valid tool to analyze and quantify endogenous molecules with accuracy, reproducibility, specificity and with a short run of the chromatographic method.

Therapeutic Drug Monitoring

Pharmacological treatments and their side effects can have an impact on the patients' safety or life's quality. Specifically, the so called ADME (absorption, distribution, metabolism, and excretion) of the drug can be highly influenced by the genetics, environment and administration of other drugs due to co-morbidities. Therefore, in some cases the treatment with a fixed drug dose can turn out risky for patients' health. For this reason, the Monitoring of a drug therapy which is optimized for a specific case is necessary.

On one hand, this can be particularly needed for drugs that present a narrow therapeutic range, which can be easily exceeded causing many toxic effects and/or increasing drug-drug interactions (DDIs) (Tuzimski, et al. 2020_review). On the other hand, if the drug concentration is lower than the safety ranges the pharmacological activity might not occur.

In the light of this, Therapeutic Drug Monitoring (TDM) is a strategic way to "adjust" the treatment and the dose based on patient's clinical case (Kuhlin_cMSpec_2018). In clinical practice, several matrices can be used for TDM: whole blood, serum, plasma, dried blood spots, oral fluid. In serum, the binding between protein and drug can occur so that only a smaller quantity remains unbound and, consequently, it is responsible for the therapeutic effect. Nevertheless, for particular patients it may be necessary to monitor the total drug concentration (Tuzimski, et al. 2020_review).

Mainly, drug metabolism take place at the hepatic level, thorough Cytochrome P-450 (CYP450) (for review, Patel 2016).

Upon metabolism the drugs are usually inactivated. However, in some cases they give rise to drug metabolites which are responsible of pharmacological activity (active metabolites). Such effect can be even higher than the one of the parent drugs. Many drugs or substances might enhance or reduce the enzymatic activity of CYP450 leading to DDIs that may result in higher toxicity or lower pharmacological activity of one of the drugs (Ref. Drug Metabolism by Jennifer Le, <https://www.msdmanuals.com>).

DDIs might also reduce the formation of pharmacologically active metabolites (Eliasson et al.).

Here some clinical scenarios of when TDM is required are reported:

- Appearance of toxic effects
- Co-administration of drugs
- Hepatic and renal impairments
- Changes in metabolism
- Active metabolites
- Drugs with narrow therapeutic index
- Organ transplant
- Monitoring of the adherence

(Tuzimski, et al. 2020_review).

Liquid chromatography coupled with tandem mass spectrometry (LC-MS/MS) techniques allows to analyze drugs with high selectivity and sensitivity.

For a long time, immunoassays have been chosen as methods for TDM. However, the necessity to analyze specific metabolites and to avoid non-specific interference coming from other molecules or matrix led to switch to an alternative method which provides high selectivity and sensitivity, high-quality data and reproducibility. This has been found in liquid chromatography methods coupled with UV, fluorescence detectors (FLD) or MS detectors triple quad (Mass Spectrometry).

In order to ensure accurate drug measurements and to avoid unspecific interferences, the establishment of a detection method is important. (Tuzimski, *et al.* 2020_review).

Eureka kits represent a valid tool for TDM.

Their advantages are listed below:

- Ready to use and CE/IVD kit
- Simple, non-critical and rapid preparative phase
- Maximum specificity
- Recovery of analytes from 90% to 100% (HPLC, GC, GS/MS) and near to 100% (LC/MS)

Occupational toxicology

Occupational toxicology represents a discipline among medical specialties that aims to analyze, diagnose and prevent occupational diseases due to chemical and biological hazards in the work environment. These include pollution, carcinogenesis, biological factors, ergonomics, etc (Ref. Groneberg_2006).

Here some examples:

It has been seen that benzene causes bone marrow damage and cancer upon long exposure to high concentration (Ref: IARC:chemical).

Benzene is metabolized at the hepatic level via CYP P450 leading to the formation of benzene oxide, from which other metabolites are formed.

Actually, two minor metabolites such as S-phenyl mercapturic acid and trans, trans-Muconic acid will be present in the urine.

These ones need to be monitored in the working environment since they are considered valid biomarkers of the benzene exposure due to their specificity (Sedha_2017).

Eureka offers a solution to this issue by proposing specific kits: the trans, trans-Muconic Acid and S-phenyl mercapturic acid in urine by LC/MS (new kit).

Another biological indicator of occupational exposure to risk for human health is the methanol in urine because it can be extremely toxic. Therefore, its monitoring is necessary in order to determine whether any antidotal therapy is needed (Ashurst_2020).

In order to meet this need, Eureka developed a specific kit: Methanol in urine by UV-FAST which allows a very short and simple chromatographic run.

In this section many different kits, which are of a big use in occupational toxicology, are listed.

Forensic Toxicology

The term "Toxicology", also known as the "Science of Safety", refers to the scientific field that investigates the damaging effects that chemicals, drugs, others substances or various settings can have on the environment, individuals and animals (Ref. <https://www.niehs.nih.gov>).

Among the several branches that Toxicology is divided into, here we focus on **Forensic Toxicology**.

Forensic toxicology analyzes toxic substances and their adverse effects in human or animals with medical-legal implications (<https://sciencemonk.com/forensic-toxicology/>). The toxicological analyses in the forensic field involve the examination of the so-called "conventional" matrices (whole blood, urine) and "alternatives" such as the hair oral fluid and sweat.

Their respective outcome, alone or in combination, provide useful elements for a correct diagnosis with forensic/medico-legal meaning in various fields.

Examples of frequent observations are reported below:

- Urine is the election matrix for determining the "recent" consumption of substances of abuse. It is unacceptable to use the urinary matrix to diagnose the biological effect produced by a substance of abuse for toxicological and forensic and medical-legal purposes (for example a state of psycho-physical alteration from the use of drugs).
- Hair matrix can be investigated to verify the status of a chronic user, as well as previous behaviors of use/abuse. The segmental analysis of hair helps to reconstruct the chronology of the consumption fairly accurately. Considering the overall hair replacement time in a sufficiently extended body area, a "time window" of about 9-18 months can be evaluated in relation to the type of hair and its natural growth.
- Whole blood matrix has been regulated and it is the election matrix to investigate the "current" use of substances of abuse. However, it is an invasive procedure and it can lead to risks for both the patient and the operator.
- Saliva matrix (more properly oral fluid) represents an alternative to whole blood, but not yet regulated. As well as whole blood matrix, it can be used to check the "current" use of substances of abuse. Moreover, it has the advantage to be a non-invasive collection method.

Mass spectrometry coupled to a chromatographic method is an election identification technique for confirmation analysis.

The use of a screening method is justified in a Forensic Toxicology Laboratory when there is need to analyze a large number of samples quickly and at low cost, with the advantages of high or total automation. Screening methods usually employ colorimetric, enzymatic and immunochemical techniques. The screening methods are however characterized by reduced specificity (qualitative data) and high inaccuracy (quantitative data) in particular when there are more chemical species in the sample that can be detected but not discriminated by the method (such as unchanged compound and its metabolites, various types of similar species of compounds).

A positive result obtained through a single screening test cannot have “forensic” validity. It is therefore necessary that this result is checked by a confirmation analysis of a new sample aliquot. The confirmation method must be able to produce an analytical result as independent as possible from the screening result and it must be characterized by **SELECTIVITY** and **SENSITIVITY** superior so that of screening.

In the field of forensic toxicology, the use of mass spectrometry (MS) in its many methodological possibilities, in combination with a chromatographic separation technique (gas chromatography, GC; high-pressure liquid chromatography, HPLC or electrophoretic capillary electrophoresis, EC) for Confirmation Analysis meet the general consensus of the international scientific community.

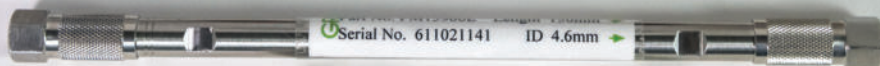
Eureka kits belonging to the Forensic Toxicology family are used to confirm and quantify the drugs of abuse in urine, hair, whole blood and saliva. They are “Second Level Confirmation Tests” and must be compulsorily analyzed in GC- GC/MS or LC/MS as described in this catalogue.

Thanks to their use, clinical and forensic laboratories do not need to prepare several reagents frequently. In particular, Eureka kits:

- Avoid possible sources of error
- Reduce the working time
- Avoid managing several suppliers of raw material and accessories
- Provide accurate and reproducible results
- Assure standardized and simple preparations

eureka kit

The Widest Range in the World of diagnostic Kits
for Analytical Chromatographic Systems
(HPLC, GC, GC-MS, LC-MS/MS)





HPLC



SPECIAL CLINICAL CHEMISTRY

N°	Code	HPLC	Pcs
BONE RE-ABSORPTION MARKERS			

INSIGHTS

Hydroxyproline is contained almost exclusively in collagen, where it accounts for 14% of the total aminoacid composition and comes from hydroxylation of proline. Collagen, the principal component of bones, is a protein whose primary structure is made by a repetitive sequence of glycine, proline, hydroxyproline and hydroxylysine. Since half of the total collagen is in the bone matter, a bone reabsorption causes an impoverishment in collagen and presents itself with a higher concentration of hydroxylysine proportional to the amount of destructed collagen. Urinary hydroxyproline is an important marker of bone resorption. Its urinary excretion is an index of the rate of bone resorption.

1 **Z01610 Hydroxyproline in urine by UV/VIS - FAST** 1 x 100 tests

Z01611	Hydroxyproline in urine - FAST - Mobile Phase	4 x 500 ml
Z01016	Calibrator for Hydroxyproline in urine	4 x 5 ml
Z10559	Control for Biogenic Amines in urine - Levels 1 and 2 (Dopamine, Epinephrine, Hydroxyproline, 5-HIAA, HVA, Norepinephrine, Normetanephrine, Metanephrine, 3-Methoxytyramine, VMA)	2 x 5 x 5 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

2 **Z12610 Hydroxyproline in urine by Fluorimetry - FAST** 1 x 100 tests

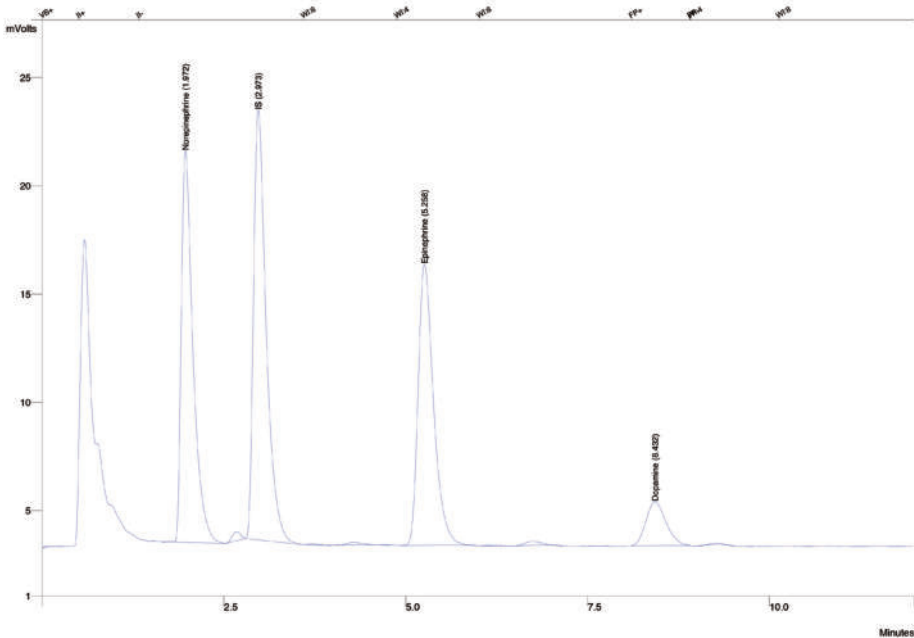
Z12611	Hydroxyproline in urine - FAST - Mobile Phase	4 x 500 ml
Z01016	Calibrator for Hydroxyproline in urine	4 x 5 ml
Z10559	Control for Biogenic Amines in urine - Levels 1 and 2 (Dopamine, Epinephrine, Hydroxyproline, 5-HIAA, HVA, Norepinephrine, Normetanephrine, Metanephrine, 3-Methoxytyramine, VMA)	2 x 5 x 5 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

INSIGHTS

Pyridinoline (Pyr) and deoxy-pyridinoline (D-Pyr) are two crosslinks of matured collagen present in many connective tissues such as bones, cartilages, tendons, ligaments and the Aorta, however absent in collagen and epidermis. Both compounds are expelled with urine. These compounds derive exclusively from matured collagen degradation and the expulsion does not seem to be influenced by diet. For all these reasons the dosage of urinary concentrations of Pyr and D-Pyr was proposed for the evaluation of bone re-absorption and pathologies that are linked to this phenomenon like osteoporosis, primary hyperparathyroidism and Paget syndrome, and for follow up of bones tumor metastasis.

3 **Z29610 Pyridinium Cross-Links in urine by Fluorimetry - FAST (Extractive Method)** 1 x 100 tests

Z29611	Pyridinium Cross-Links in urine - FAST - Mobile Phase	4 x 500 ml
Z29016	Calibrator for Pyridinium Cross-Links in urine	4 x 5 ml
Z29019	Control for Pyridinium Cross-Links in urine - Levels 1 and 2	2 x 5 x 5 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

N°	Code	HPLC	Pcs												
6	Z25610	Free Catecholamines in plasma by Fluorimetry - FAST (Extractive Method) (Dopamine, Epinephrine, Norepinephrine)	1 x 100 tests												
	Z25611	Free Catecholamines in plasma - FAST - Mobile Phase	4 x 500 ml												
	Z25016	Calibrator for Catecholamines (Dopamine, Epinephrine, Norepinephrine) in plasma	4 x 1 ml												
	Z25019	Control for Catecholamines (Dopamine, Epinephrine, Norepinephrine) in plasma - Levels 1 and 2	2 x 5 x 1 ml												
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc												
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs												
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs												
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs												
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs												
	<div><table><tr><th colspan="2">Plasma control (level 2)</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>2.0</td><td>Norepinephrine</td></tr><tr><td>3.0</td><td>IS</td></tr><tr><td>5.3</td><td>Epinephrine</td></tr><tr><td>8.4</td><td>Dopamine</td></tr></table></div>			Plasma control (level 2)		RT (min)	Analyte	2.0	Norepinephrine	3.0	IS	5.3	Epinephrine	8.4	Dopamine
Plasma control (level 2)															
RT (min)	Analyte														
2.0	Norepinephrine														
3.0	IS														
5.3	Epinephrine														
8.4	Dopamine														

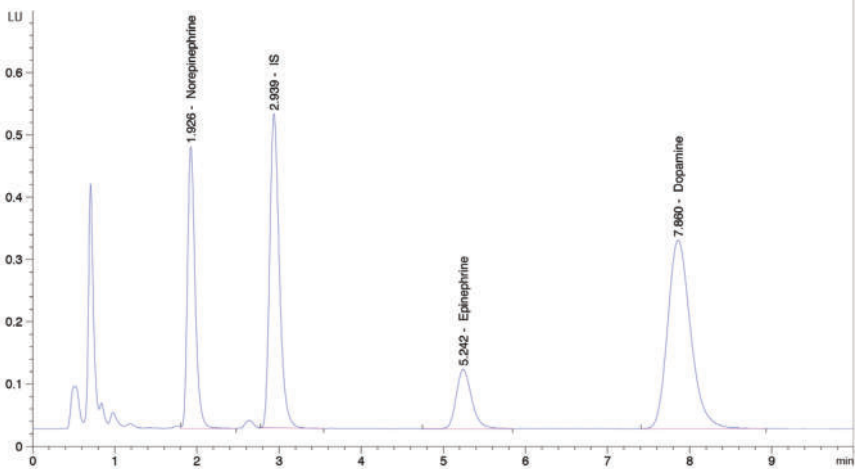
N°	Code	HPLC	Pcs
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7	Z10650	DUAL Kit Catecholamines by Fluorimetry - FAST (Extractive Method) (Dopamine, Epinephrine, Norepinephrine)	1 x 100 tests
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(Kit for analysis of Free Catecholamines in Plasma and in Urine)



Z10651	DUAL Kit Catecholamines - FAST - Mobile Phase	4 x 500 ml
Z10116	Calibrator for Catecholamines in urine (Dopamine, Epinephrine, Norepinephrine)	4 x 5 ml
Z25016	Calibrator for Catecholamines in plasma (Dopamine, Epinephrine, Norepinephrine)	4 x 1 ml
Z10559	Control for Biogenic Amines in urine - Levels 1 and 2 (Dopamine, Epinephrine, Hydroxyproline, 5-HIAA, HVA, Norepinephrine, Normetanephrine, Metanephrine, 3-Methoxytyramine, VMA)	2 x 5 x 5 ml
Z25019	Control for Catecholamines in plasma - Levels 1 and 2 (Dopamine, Epinephrine, Norepinephrine)	2 x 5 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs



Urine calibrator	
RT (min)	Analyte
1.9	Norepinephrine
2.9	IS
5.2	Epinephrine
7.9	Dopamine

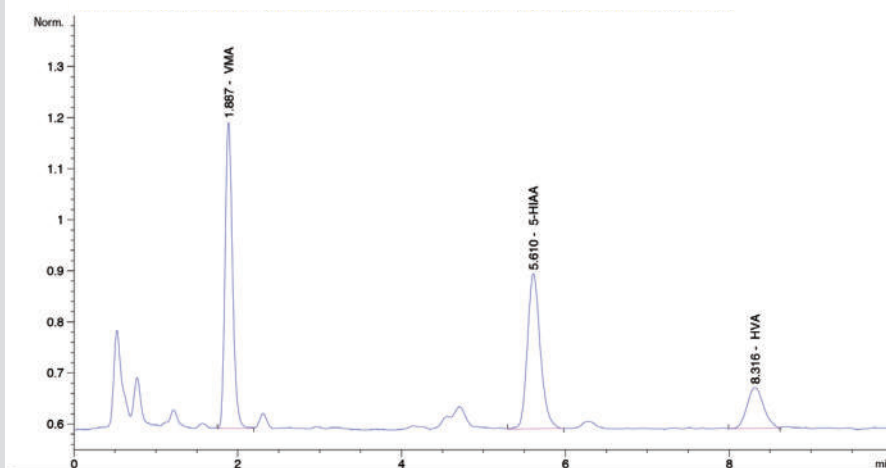
N°	Code	HPLC	Pcs
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INSIGHTS

The catabolic process of monoamines is in part neuronal and happens in the mitochondria and it is catalyzed by the Monoamine oxidase (MAO) and, partly extra neuronal for catecholamines, it is catalyzed by COMT. In particular, we obtain dihydroxyphenylacetic acid from dopamine by the action of the MAO, which is transformed by COMT into Homovanillic Acid (HVA). 3,4-Dihydroxypropanoic originates from Noradrenaline and Adrenaline and by interacting with COMT we have the synthesis of Vanilmandelic acid (VMA). Values of these analytes out of the norm indicate the presence of Pheochromocytoma, paraganglioma or neuroblastoma. 5-hydroxyindolacetic acid (5-HIAA) is the principal final product of serotonin metabolism. The determination of its concentration in urine is utilized for the diagnosis of a neuroendocrine tumor.

8 **Z14610** **Free VMA/5-HIAA/HVA in urine by Fluorimetry - FAST** 1 x 100 tests
 (5-hydroxyindolacetic acid, Homovanillic Acid, Vanilmandelic acid)
Attention: it's necessary to have a column heater at min 21 °C!

Z14611	Free VMA/5-HIAA/HVA in urine - FAST - Mobile Phase	4 x 500 ml
Z14516	Calibrator for VMA, 5-HIAA and HVA in urine	4 x 5 ml
Z10559	Control for Biogenic Amines in urine - Levels 1 and 2 (Dopamine, Epinephrine, Hydroxyproline, 5-HIAA, HVA, Norepinephrine, Normetanephrine, Metanephrine, 3-Methoxytyramine, VMA)	2 x 5 x 5 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs



Urine control (level 2)	
RT (min)	Analyte
1.9	Vanilmandelic acid (VMA)
5.6	5-hydroxyindolacetic acid (5-HIAA)
8.3	Homovanillic acid (HVA)

N°	Code	HPLC	Pcs
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INSIGHTS

The dosage of urinary metanephrines represents a reliable test for the screening of pheochromocytoma. These substances derive from the metabolism of catecholamines, hormones produced and secreted by medullary of the adrenal glands, in order to prepare the organism for stressful events. Pheochromocytoma is a tumor that affects adrenal glands causing a hypersecretion of catecholamines; as a result, levels of Adrenaline and Noradrenaline increase, as do the respective metabolites, called metanephrines. They form inside the tumor and are secreted inconsistently by the tumor.

9

Z13210

Total Metanephrines in urine by Fluorimetry - FAST (Extractive Method)

(3-Methoxytyramine, Metanephrine, Normetanephrine)

1 x 100 tests

Z13211

Total Metanephrines in urine - FAST - Mobile Phase

4 x 500 ml

Z12516

Calibrator for Total Metanephrines in urine
(3-Methoxytyramine, Metanephrine, Normetanephrine)

4 x 5 ml

Z10559

Control for Biogenic Amines in urine - Levels 1 and 2
(Dopamine, Epinephrine, Hydroxyproline, 5-HIAA, HVA, Norepinephrine, Normetanephrine, Metanephrine, 3-Methoxytyramine, VMA)

2 x 5 x 5 ml

Z695975408

Infinity Lab Poroshell 120 PFP Analytical column ~ 1000 injections (100 x 4,6 mm - 2,7 µm)

1 Pc

S90199511

Javelin Prefilter (Analytical column protection)

1 x 10 Pcs

Z1636/26

10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)

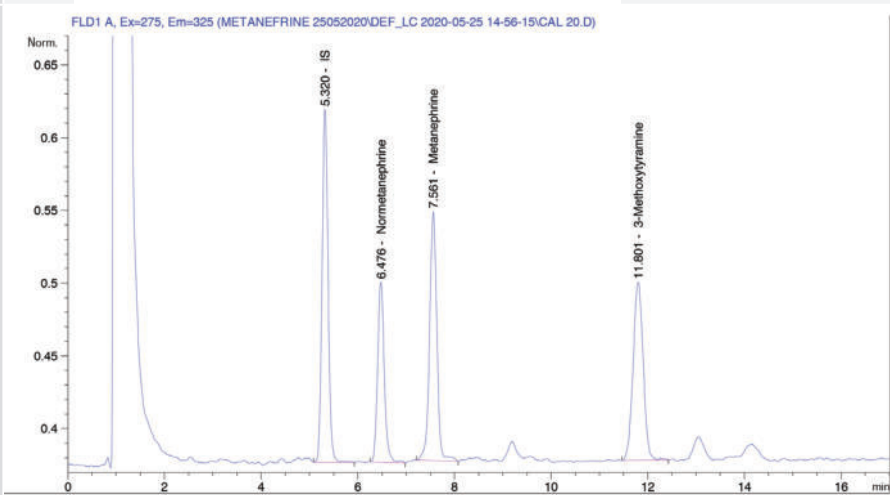
1 x 40 Pcs

S29057U

Stand

1 x 100 Pcs

FLD1 A, Ex=275, Em=325 (METANEPHRINE 25052020\DEF_LC 2020-05-25 14-56-15\CAL 20.D)

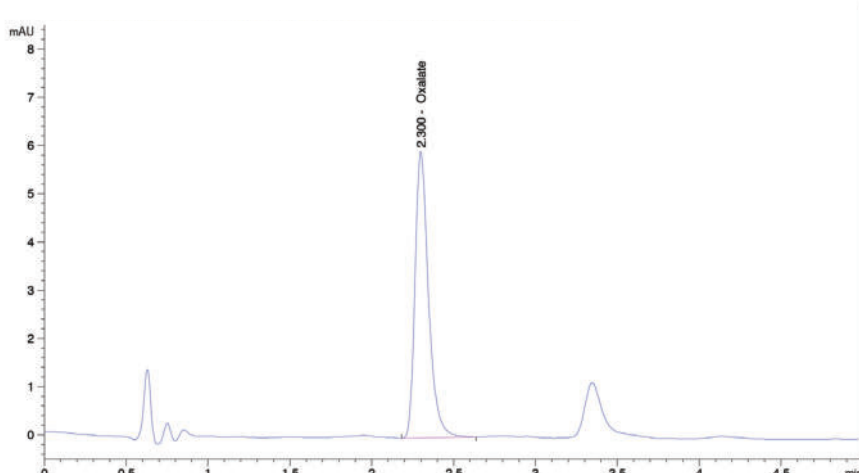


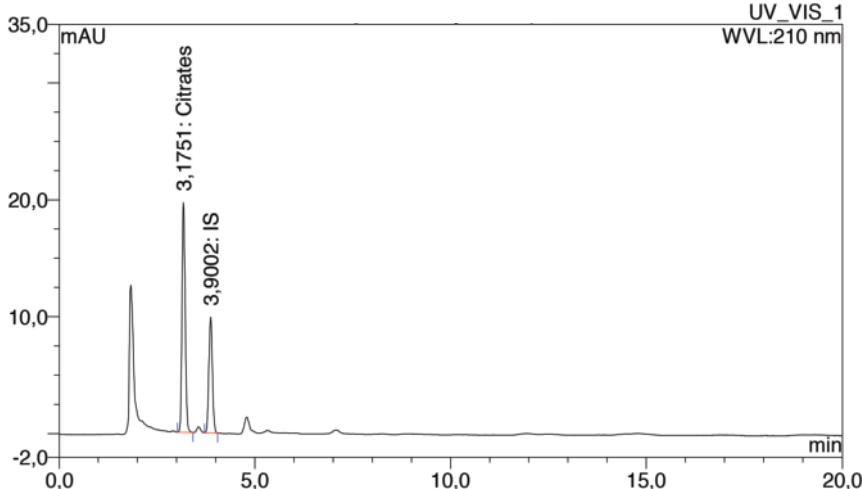
Urine calibrator	
RT (min)	Analyte
5.3	IS
6.5	Normetanephrine
7.6	Metanephrine
11.8	3-Methoxytyramine

INSIGHTS

Serotonin is an ammine with important biological effects; it stimulates straight muscle contraction of the gastrointestinal, bronchus, bladder and vascular system, besides being involved in the cerebral functioning and hemostasis. An elevated quantity of serotonin in circulation is caused by a series of alterations to functional mechanisms and anatomical alterations, which, together, form the whole picture of the carcinoma syndrome: intestinal circulatory disturbance, sense of warmth, tachycardia, asthmatic phenomena, and migraines.

10	Z15610	Serotonin in urine by Fluorimetry - FAST (Extractive Method)	1 x 100 tests
	Z15611	Serotonin in urine - FAST - Mobile Phase	4 x 500 ml
	Z15516	Calibrator for Serotonin in urine	4 x 5 ml
	Z15519	Control for Serotonin in urine - Levels 1 and 2	2 x 5 x 5 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

N°	Code	HPLC	Pcs						
11	Z15110	Serotonin in serum by Fluorimetry - FAST	1 x 100 tests						
	Z15111	Serotonin in serum - FAST - Mobile Phase	4 x 500 ml						
	Z15016	Calibrator for Serotonin in serum	4 x 2 ml						
	Z15019	Control for Serotonin in serum - Levels 1 and 2	2 x 5 x 2 ml						
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc						
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs						
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs						
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs						
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs						
INDICATOR FOR KIDNEY STONES DEVELOPEMENT									
12	Z32610	<div>INSIGHTS The oxalates introduced by diet are eliminated for the major part by urinating. If the diet presents an elevated quantity of calcium, the quantity of oxalate absorbed by the intestine tends to diminish because the oxalate is precipitated as calcium oxalate; this is therefore characteristic in subjects with an oxalate rich diet and low in calcium, like a vegetarian diet, which favors the formation of calcium oxalate kidney stones.</div> <div>Oxalate in urine by UV and by Fluorimetry - FAST</div>	1 x 100 tests						
	Z32611	Oxalate in urine - FAST - Mobile Phase	4 x 500 ml						
	Z32216	Calibrator for Oxalate/Citrates in urine	4 x 5 ml						
	Z32219	Control for Oxalate/Citrates in urine - Levels 1 and 2	2 x 5 x 5 ml						
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc						
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs						
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs						
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs						
	<div></div> <div><table><tr><th colspan="2">Urine sample</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>2.3</td><td>Oxalate</td></tr></table></div>		Urine sample		RT (min)	Analyte	2.3	Oxalate	
Urine sample									
RT (min)	Analyte								
2.3	Oxalate								

N°	Code	HPLC	Pcs							
13	Z32510	<div><div>INSIGHTS</div><div>The diminishing of Citrates in urine compared to normal values indicates the presence of kidney stones. Significant differences were found in citraturia by gender and diet. In fact, increased excretion is seen in females because of the higher rate of estrogen (this would explain the lower incidence of gallstones in women of childbearing age), a diet with excess protein, sodium chloride or prolonged fasting. With this method you can determine the concentration of citric acid in urine.</div></div> <div><div>Citrates in urine by UV - FAST</div><div>Attention: it's necessary to have a column heater at min 55°C!</div></div>	1 x 100 tests							
	Z32511	Citrates in urine - FAST- Mobile Phase	4 x 500 ml							
	Z32216	Calibrator for Oxalate/Citrates in urine	4 x 5 ml							
	Z32219	Control for Oxalate/Citrates in urine - Levels 1 and 2	2 x 5 x 5 ml							
	ZTF25303154630	Hypersil Gold AQ Analytical Column ~ 1000 injections (150 x 4,6 mm - 3 µm)	1 Pc							
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs							
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs							
		<div><div><div><div>UV_VIS_1</div><div>WVL:210 nm</div><div></div></div><div><table><tr><th colspan="2">Urine calibrator</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>3.2</td><td>Citrates</td></tr><tr><td>3.9</td><td>IS</td></tr></table></div></div></div>	Urine calibrator		RT (min)	Analyte	3.2	Citrates	3.9	IS
Urine calibrator										
RT (min)	Analyte									
3.2	Citrates									
3.9	IS									
14	Z32310	<div><div>Citrates in serum by UV</div><div>Attention: it's necessary to have a column heater at min 55°C!</div></div>	1 x 100 tests							
	Z32311	Citrates in serum - Mobile Phase	4 x 500 ml							
	Z32320	Liquid Calibrator for Citrate in serum	2 x 5 ml							
	ZPL11706830	Hi Plex H Analytical column ~ 1000 injections (300 x 7,7 mm - 8 µm)	1 Pc							
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs							
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs							
15	Z32410	<div><div>Citrates in serum and in urine - Dual kit by UV</div><div>Attention: it's necessary to have a column heater at min 55°C!</div></div>	1 x 100 tests							
	Z32411	Citrates in serum and urine Dual kit - Mobile Phase	4 x 500 ml							
	Z32320	Liquid Calibrator for Citrate in serum	2 x 5 ml							
	Z32216	Calibrator for Oxalate/Citrates in urine	4 x 5 ml							
	Z32219	Control for Oxalate/Citrates in urine - Levels 1 and 2	2 x 5 x 5 ml							
	ZPL11706830	Hi Plex H Analytical column ~ 1000 injections (300 x 7,7 mm - 8 µm)	1 Pc							
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs							
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs							

N°	Code	HPLC	Pcs
ANTIOXIDANT MOLECULES			
16	Z58010	INSIGHTS The asymmetric dimethyl arginine (ADMA), inhibits the production of nitrous oxide, hindering the normal vascular homeostasis. Elevated ADMA levels were observed in cerebrovascular events, in arteriosclerosis, in hypertension, in hyperlipidemia, in diabetes and kidney insufficiency.	1 x 100 tests
		ADMA in serum and in plasma by Fluorimetry (Asymmetric Dimethylarginine, Symmetric Dimethylarginine, Total Arginine)	
	Z58011	ADMA in serum and in plasma - Mobile Phase	4 x 500 ml
	Z58016	Calibrator for ADMA, SDMA and Arginine in plasma	4 x 5 ml
	Z58019	Control for ADMA, SDMA and Arginine in plasma - Levels 1 and 2	2 x 5 x 5 ml
	ZPSS830815	Phenyl Spherisorb Analytical column ~ 1000 injections (250 x 4,6 mm - 5 µm)	1 Pc
	ZPSS830008	In Line Guard Cart Holder Kit	1 Pc
	ZPSS830078	Phenilic Prefilters Spher 5 µm P 4,6 mm x 1 cm Guard	1 x 3 Pcs
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

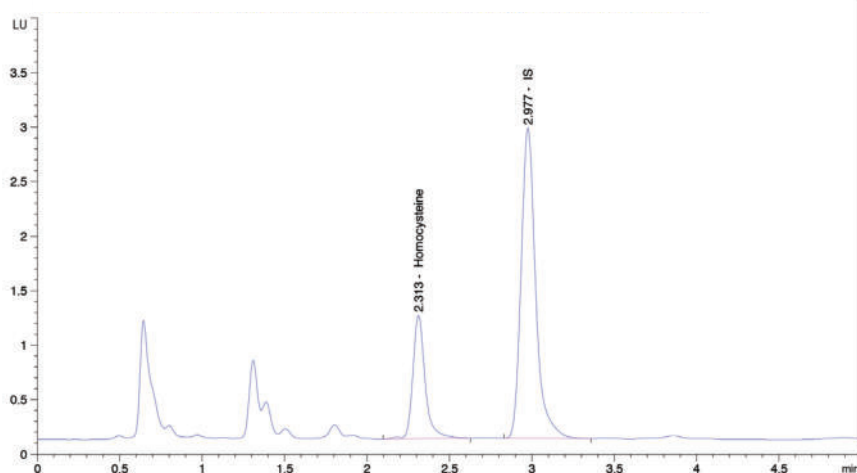
INSIGHTS

Homocysteine is considered an independent risk factor, because it is able to increase the incidence of cardiovascular diseases independently of the presence of other causing factors. Values over 10-12 micromoles per liter are correlated to an augmented risk of arteriosclerosis, ictus and myocardial infarction. Like cholesterol, homocysteine is associated with an increased risk of cardiovascular diseases. However it also increases the risk of other pathologies (venous thrombosis, pulmonary embolism) as well as fetal malformations, mental decay, Alzheimer and spontaneous fractures.

17 **Z09610** **Homocysteine in plasma by Fluorimetry - FAST** 1 x 100 tests

18 **Z09710** **Homocysteine in plasma by Fluorimetry - FAST** 1 x 500 tests

Z09611	Homocysteine in plasma - FAST - Mobile Phase	4 x 500 ml
Z09016	Calibrator for Homocysteine in plasma	4 x 2 ml
Z09019	Control for Homocysteine in plasma - Levels 1 and 2	2 x 5 x 2 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs



Plasma calibrator	
RT (min)	Analyte
2.3	Homocysteine
3.0	IS

N°	Code	HPLC	Pcs
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NEW**INSIGHTS**

Reduced Glutathione (GSH) participates, through various biochemical mechanisms in the metabolism of various endogenous compounds. In some cases it works as a coenzyme, in others as a substrate. It intervenes in the transport of aminoacids and probably also in the transport of certain amino and peptide groups. In particular some studies have confirmed the importance of glutathione in the protection of cell membranes and constitutive proteins through the maintenance of the -SH groups. GSH is a powerful antioxidant useful for monitoring the defense of cells against free radicals.

19 **Z30110** **Glutathione in whole Blood by Fluorimetry FAST** 1 x 100 tests

Z30111	Glutathione in whole Blood by Fluorimetry FAST - Mobile Phase	4 x 500 ml
Z30016	Calibrator for Glutathione in whole blood	4 x 1 ml
Z30019	Control for Glutathione in whole blood – Levels 1 and 2	2 x 5 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs

INSIGHTS

Coenzyme Q, also called Ubiquinone (or vitamin Q) is an organic molecule with a very long isoprene lateral chain, similar to vitamin K and E. In organisms it participates to redox reactions and, depending on the oxidation state, could be present in three forms: oxidized, a semi-quinone form and a reduced form. Increased levels of Q10 could improve the efficiency of the electron transport chain, increasing the available energy. Concentration of Q10 tends to diminish with old age. Low levels are registered in the presence of particular chronic diseases such as cardiac problems, Parkinson disease, muscular dystrophy, diabetes, cancer and AIDS. Also some drugs, like statins used in the control of hypercholesterolemia can lower Q10 levels.

20 **Z63110** **Coenzyme Q10 in plasma by UV - FAST** 1 x 100 tests
it's better to have a dry system!

Z63111	Coenzyme Q10 in plasma - FAST - Mobile Phase	4 x 500 ml
Z63016	Calibrator for Coenzyme Q10 in plasma	4 x 1 ml
Z63019	Control for Coenzyme Q10 in plasma - Levels 1 and 2	2 x 5 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	HPLC	Pcs
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INSIGHTS

Carotene is a vitamin contained in many kinds of vegetables and fruits, giving the yellow-red color. Beta-carotene is the most common form in nature. In the intestine it is partly converted into vitamin A, a fundamental substance for skin and eye well-being and the rest is stored. Lycopene is part of the carotenoid group. The major dietary source is the tomato and its derivatives. Other natural sources of lycopene are melons, guava and pink grapefruits. Lycopene concentration in the organism is strictly linked to the concentrations of these foods in the diet. They are good antioxidants, therefore they take part in tumor prevention. First research in this field started from epidemiologic studies that found a strong relationship between fruit and vegetables consumption prevention some types of cancer.

21	Z64010	Beta-Carotene in plasma by UV/VIS - FAST	1 x 100 tests
	Z64011	Beta-Carotene in plasma - FAST - Mobile Phase	4 x 500 ml
	Z64020	Liquid Calibrator for beta-Carotene in plasma	2 x 5 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

OXIDATIVE STRESS MARKERS**INSIGHTS**

3-nitrotyrosine is found in many pathological conditions and is considered as a marker of oxidative stress dependent on NO. Nitrotyrosine is found in many tissues affected by diseases, such as the cornea and keratoconus. It is most likely involved in the process of pathogenesis of diabetes. It is identified as an indicator of cell damage and inflammation, as well as an index of NO production. It is believed that measuring the concentration of nitrotyrosine serves as a marker for the damage caused by NO in the cell. Previous studies have shown that nitrotyrosine is found in inflammatory conditions such as atherosclerotic plaques and rheumatoid arthritis.

22	Z61010	3-Nitrotyrosine in plasma by UV - FAST	1 x 100 tests
	Z61011	3-Nitrotyrosine in plasma by UV - FAST - Mobile Phase	4 x 500 ml
	Z61016	Calibrator for 3-Nitrotyrosine in plasma	4 x 1 ml
	Z61019	Control for 3-Nitrotyrosine in plasma - Levels 1 and 2	2 x 5 x 1 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	HPLC	Pcs
VITAMINS			

INSIGHTS

Vitamin D has a fundamental role in the control of calcium and phosphide concentrations in the extracellular matrix and therefore in the bone mineralization processes and in maintaining skeletal integrity. It also has a fundamental role in preventing some pathological processes such as cardiovascular diseases, some tumor forms (colon, breasts), multiple sclerosis, type 1 diabetes and some infectious diseases (tuberculosis, seasonal flu).

- 23 **Z19810** **25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma by UV - FAST - reduced volume (Extractive Method)** 1 x 100 tests
- 24 **Z19815** **25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma by UV - FAST - reduced volume (Extractive Method)** 1 x 500 tests

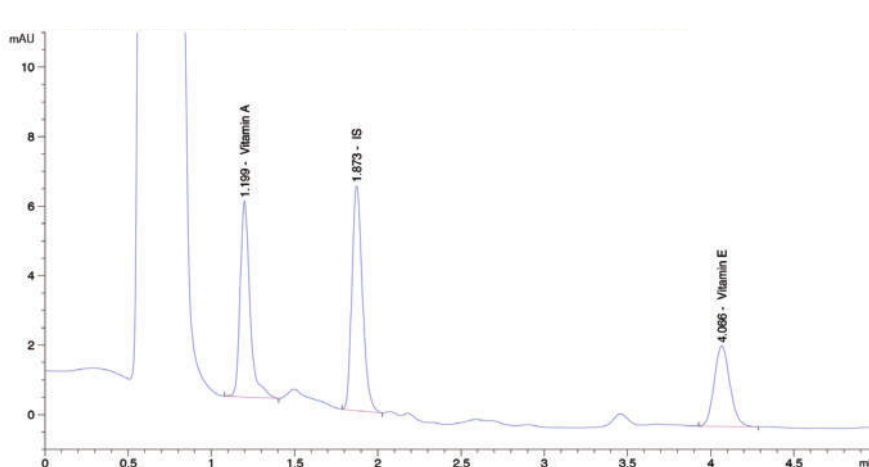
Z19811	25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma - FAST- Mobile Phase	4 x 500 ml
Z19116	Calibrator for 25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma	4 x 5 ml
Z19119	Control for 25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma - Levels 1 and 2	2 x 5 x 5 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

INSIGHTS

Vitamin A (retinol) has multiple functions because it is essential not only for sight but also for differentiating epithelial tissues, mesenchymal and spermatogenesis and for the maintaining and development of the placenta. Vitamin E (tocopherol) is essential for a normal muscular development and has antioxidant properties, preventing self-oxidation of strongly unsaturated fatty acids and avoiding their polymerization.

- 25 **Z18610** **Vitamins A/E in plasma by UV - FAST** 1 x 100 tests

Z18611	Vitamins A/E in plasma - FAST - Mobile Phase	4 x 500 ml
Z18016	Calibrator for Vitamins A/E in plasma	4 x 1 ml
Z18019	Control for Vitamins A/E in plasma - Levels 1 and 2	2 x 5 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs



Plasma sample	
RT (min)	Analyte
1.2	Vitamin A
1.9	IS
4.1	Vitamin E

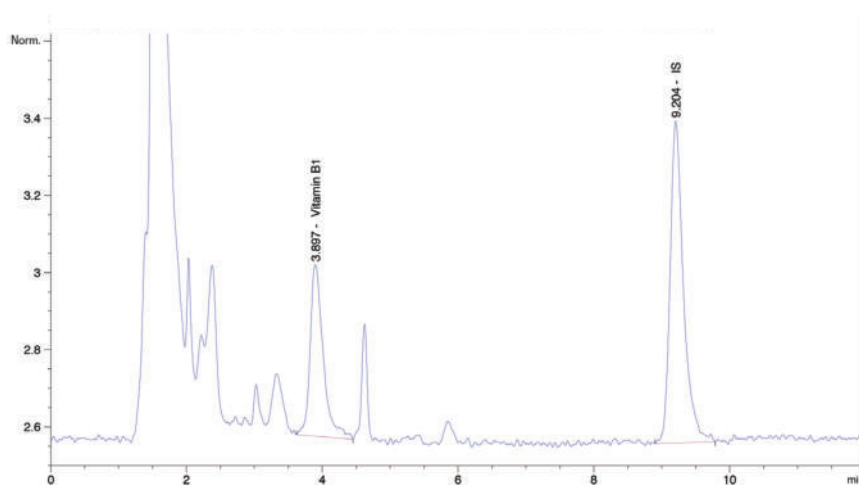
N°	Code	HPLC	Pcs
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INSIGHTS

Vitamin B1 is an antioxidant molecules, essential for the correct functioning of the nervous system, heart and muscles. Lack of this vitamin, or thiamine, causes damage to the nervous and cardiovascular system. Among the symptoms that may indicate a deficiency of vitamin B1 are loss of appetite and fatigue and, in severe cases, nausea, vomiting, and a general weakening of the muscles.

26 **Z85010** **Vitamin B1 in whole blood by Fluorimetry - FAST** 1 x 100 tests

Z85011	Vitamin B1 in whole blood - FAST - Mobile Phase	4 x 500 ml
Z85016	Calibrator for Vitamin B1 in whole blood	4 x 1 ml
Z85019	Control for Vitamins B1/B2/B6 in whole blood - Levels 1 and 2	2 x 5 x 1 ml
Z959961902	Zorbax Eclipse Plus C18 Analytical column ~ 1000 injections (100 x 4,6 mm - 3,5 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29004U	Amber Glass Vials of 2 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
S24717	Glass insert for vials of 2 ml	1 x 100 Pcs



Whole blood sample	
RT (min)	Analyte
3.9	Vitamin B1
9.2	IS

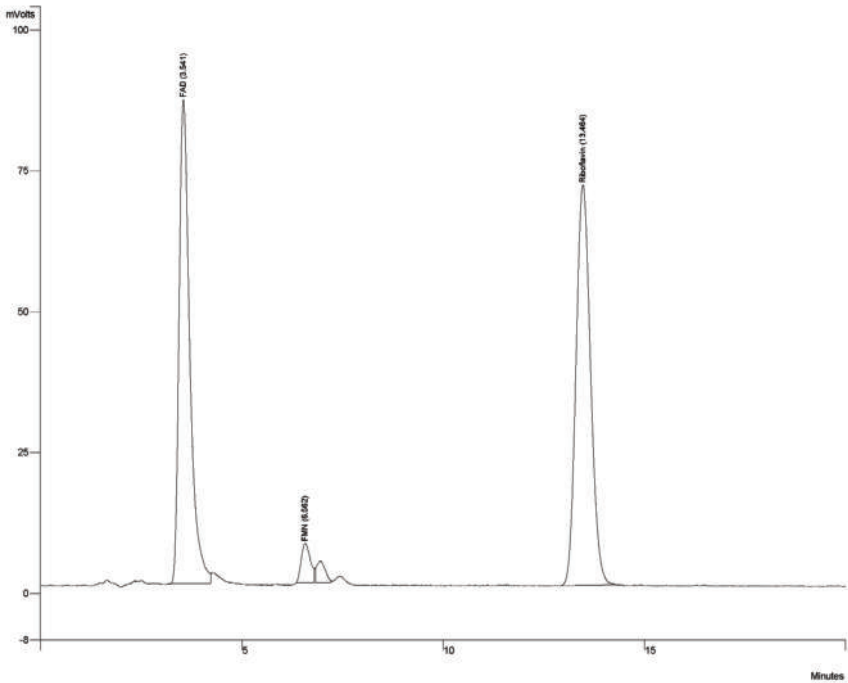
N°	Code	HPLC	Pcs
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INSIGHTS

Riboflavin (or vitamin B2) is found mainly in foods such as phosphorylated forms. To be absorbed, it is dephosphorylated by specific phosphatases that are found in the small intestine. Riboflavin is involved in numerous metabolic reactions that can also cover other vitamins. This means that a deficiency of riboflavin can lead to a plurideficiency of other vitamins. Symptoms of lack of vitamin B2 are: mitochondrial alterations, increase of lipidic peroxidation, anemic state caused by shortage of iron, increase synthesis of glutathione and consequent decrease of amino acids involved in such processes. The molecule is essential for other metabolic functions, especially the ones involving tissues. It keeps in fact in good health the digestive and respiratory mucus, in addition to contributing to the integrity of the nervous system, skin and eyes. Essential for development and growth, vitamin B2 activates the enzymes involved in many reactions.

27 **Z85110** **Vitamin B2 in whole blood by Fluorimetry - FAST** 1 x 100 tests

Z85111	Vitamin B2 in whole blood - FAST - Mobile Phase	4 x 500 ml
Z85116	Calibrator for Vitamin B2 in whole blood	4 x 1 ml
Z85019	Control for Vitamins B1/B2/B6 in whole blood - Levels 1 and 2	2 x 5 x 1 ml
Z959961902	Zorbax Eclipse Plus C18 Analytical column ~ 1000 injections (100 x 4,6 mm - 3,5 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29004U	Amber Glass Vials of 2 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
S24717	Glass insert for vials of 2 ml	1 x 100 Pcs



Whole blood calibrator	
RT (min)	Analyte
3.5	Flavin adenine dinucleotide (FAD)
6.6	Flavin adenine mononucleotide (FMN)
13.5	Riboflavin (B2)

N°	Code	HPLC	Pcs
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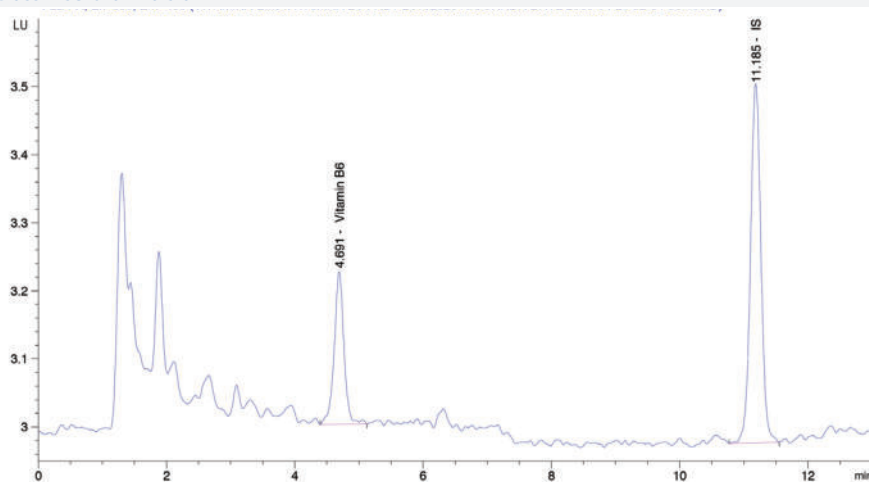


INSIGHTS

Vitamin B6 is a water soluble vitamin which forms part of the group B. The vitamins of this group involved in the metabolism of carbohydrates, fats and proteins and are thus essential for the production of energy and for the normal functioning of various organs and systems. Among the symptoms that may indicate a lack of vitamin B6 are depression accompanied with nausea, vomiting, seborrheic dermatitis, lesions of the mucous, glossitis and peripheral neuropathies.

28 **Z85610** **Vitamin B6 in whole blood by Fluorimetry - FAST** 1 x 100 tests

Z85611	Vitamin B6 in whole blood - FAST - Mobile Phase	4 x 500 ml
Z85616	Calibrator for Vitamin B6 in whole blood	4 x 1 ml
Z85019	Control for Vitamins B1/B2/B6 in whole blood - Levels 1 and 2	2 x 5 x 1 ml
Z959961902	Zorbax Eclipse Plus C18 Analytical column ~ 1000 injections (100 x 4,6 mm - 3,5 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29004U	Amber Glass Vials of 2 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
S24717	Glass insert for vials of 2 ml	1 x 100 Pcs



Whole blood sample	
RT (min)	Analyte
4.7	Vitamin B6
11.2	IS

N°	Code	HPLC	Pcs
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INSIGHTS

Vitamin C is a potent reducing agent that has a key role in many biological processes; it is necessary for the optimal activation of enzymes involved in many hydroxylation reactions, in the production and maintaining of collagen, in the synthesis of bile acids from cholesterol, etc... Lacking of this vitamin can lead to asthenia, anorexia, bone alterations (osteoporosis), depression, anemia and diminished resistance to infections.

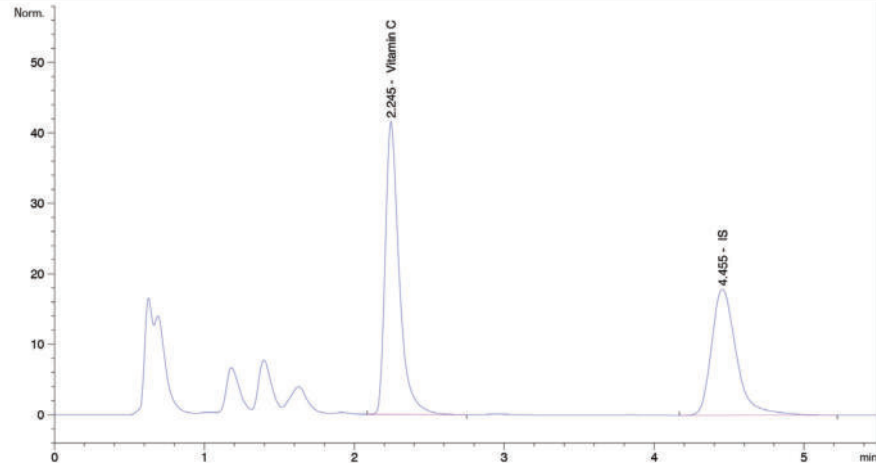
29

Z20610

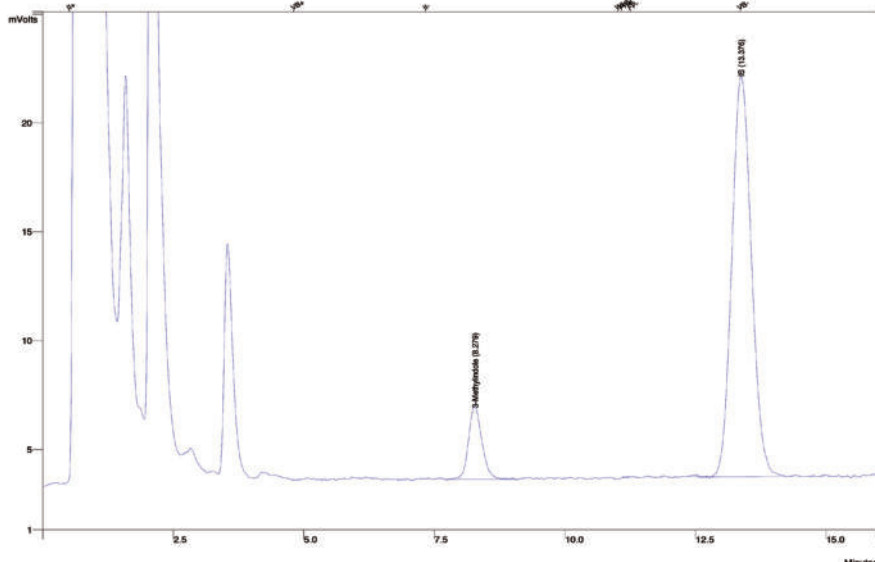
Vitamin C in plasma by UV - FAST

1 x 100 tests

Z20611	Vitamin C in plasma - FAST - Mobile Phase	4 x 500 ml
Z20016	Calibrator for Vitamin C in plasma	4 x 1 ml
Z20019	Control for Vitamin C in plasma – Levels 1 and 2	2 x 5 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 1000 Pcs
S51820717	Caps for Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs



Plasma control (level 1)	
RT (min)	Analyte
2.2	Vitamin C
4.5	IS

N°	Code	HPLC	Pcs								
INTESTINAL DYSBIOSIS MARKERS											
30	Z60010	<div><div>INSIGHTS</div><div>3-methyl indole or skatole is present in faeces and is derived from biotransformation (decarboxylation) of the amino acid Tryptophan that is found in the digestive tract of mammals. In the colon, there is a large bacterial flora that may be subject to changes that make it harmful to health. When this flora is balanced and useful to the body, there is a balance that is called "eubiosis". When, however, unwanted bacteria appear, they alter the balance and create the "intestinal disbiosis", unfortunately a very common condition. If the intestinal flora is not balanced, the amino acids derived from undigested proteins undergo a decarboxylation process that produces toxic amines, such as 3-methyl indole, resulting from tryptophan. Many of these amines are powerful vasoconstrictive poisons. It should also be noted that 3-methyl indole is responsible for the particularly odour of faeces.</div></div> <div>3-Methylindole (Skatole) in urine by Fluorimetry - FAST</div>	1 x 100 tests								
	Z60011	3-Methylindole (Skatole) in urine - FAST - Mobile Phase	4 x 500 ml								
	Z60016	Calibrator for 3-Methylindole (Skatole) in urine	4 x 1 ml								
	Z60019	Control for 3-Methylindole (Skatole) in urine - Levels 1 and 2	2 x 5 x 1 ml								
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc								
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs								
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs								
	<div></div> <table><thead><tr><th colspan="2">Spiked urine sample</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr></thead><tbody><tr><td>8.3</td><td>3-Methylindole</td></tr><tr><td>13.4</td><td>IS</td></tr></tbody></table>			Spiked urine sample		RT (min)	Analyte	8.3	3-Methylindole	13.4	IS
Spiked urine sample											
RT (min)	Analyte										
8.3	3-Methylindole										
13.4	IS										

N°	Code	HPLC	Pcs	
31	Z60110	INSIGHTS Indican is a product of tryptophan metabolism. Tryptophan is first converted to indole. Following absorption from the gut, indole is hydroxylated in the liver and conjugated with sulfuric acid or glucuronic acid. Finally, it is excreted in urine as Indican. The levels of urinary Indican are usually low in clinically healthy individuals (eubiosis). Instead, if there is an imbalance between micro-organisms, a condition called dysbiosis occurs. Some of the symptoms are: poor digestion, swelling, halitosis, increased susceptibility to infections, as well as nervousness, anxiety, sleep disorders and fatigue. The values of Indican present in urine can undergo variations. In particular, an increase occurs in cases of steatorrhea due to pancreatic insufficiency treated with pancreatic enzyme extract, and Hartnup disease, a rare genetic disease characterized by intestinal and renal malabsorption of some amino acids. Furthermore, high levels of this analyte are correlated with a rapid progression of chronic kidney disease in non-dialysate uremic patients. Oral antibiotics, on the other hand, can decrease urinary Indican.		
		Indican in urine by Fluorimetry - FAST	1 x 100 tests	
		Z60111	Indican in urine by Fluorimetry - FAST - Mobile Phase	4 x 500 ml
		Z60116	Calibrator for Indican in urine	4 x 1 ml
		Z60119	Control for Indican in urine - Levels 1 and 2	2 x 5 x 1 ml
		Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
		S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
		S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
MARKERS FOR METABOLIC DISEASES				
32	Z39110	INSIGHTS Porphyrias are a group of hereditary disorders resulting from enzymatic defects in the biosynthetic pathway of heme. Depending on the specific enzyme involved, various porphyrins and their precursors accumulate in different types of samples. Eritrocitary Protoporphyrin IX (PPIX) analysis should be performed in patients with clinical suspicion of erythropoietic protoporphyria (EPP) or X-linked dominant protoporphyria (XLDPP). Common symptoms may include itching, edema, erythema, burning or burning sensation, and occasionally scarring of the skin in sun-exposed areas.		
		Free Eritrocitary Protoporphyrin IX (PPIX) and Zinc Protoporphyrin (ZnPP) in whole blood by Fluorimetry - FAST	1 x 100 tests	
		Z39111	Free Eritrocitary PPIX and ZnPP in whole blood - FAST - Mobile Phase	4 x 500 ml
		Z39016	Calibrator for PPIX and Znpp in whole blood	1 x 2 x 0,5 ml/ 4 x 1ml
		Z39019	Control for PPIX and Znpp in whole blood - Levels 1 and 2	1 x 4 x 0,5 ml/ 10 x 1 ml
		Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
		S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
		S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
33	Z73010	INSIGHTS Acute porphyries are metabolic diseases that cause alterations in biochemical processes, mostly in the liver. They neither cause hematologic diseases nor hepatic damage. When porphyrins accumulate in the skin, it becomes particularly sensitive to light causing the typical symptoms of porphyria. The accumulation in the liver of simpler chemical precursors is responsible for more acute attacks. Patterns of porphyrin accumulation in erythrocytes and plasma and excretion of heme precursors in urine and faeces allow to detect and differentiate porphyrias.		
		Differentiated Porphyrins in urine by Fluorimetry- FAST (Coproporphyrin I and Coproporphyrin III, Heptacarboxyporphyrin, Hexacarboxyporphyrin, Pentacarboxyporphyrin, Uroporphyrin I) (Binary gradient pump necessary)	1 x 100 tests	
		Z73021	Differentiated Porphyrins in urine - Mobile Phase M1	4 x 500 ml
		Z73031	Differentiated Porphyrins in urine - Mobile Phase M2	4 x 500 ml
		Z73016	Multiparametric Calibrator for Differentiated Porphyrins in urine (Coproporphyrin I and Coproporphyrin III, Heptacarboxyporphyrin, Hexacarboxyporphyrin, Pentacarboxyporphyrin, Uroporphyrin I)	4 x 1 ml
		Z73019	Control for differentiated Porphyrins in urine - Levels 1 and 2 (Coproporphyrin I and Coproporphyrin III, Heptacarboxyporphyrin, Hexacarboxyporphyrin, Pentacarboxyporphyrin, Uroporphyrin I)	2 x 5 x 1 ml
		Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
		S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
		S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs



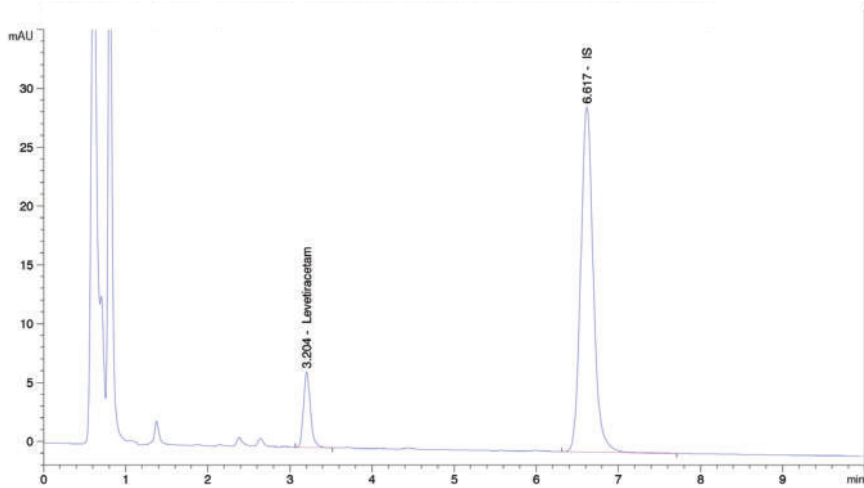
THERAPEUTIC DRUG MONITORING

N°	Code	HPLC	Pcs
ANTIEPILEPTICS			

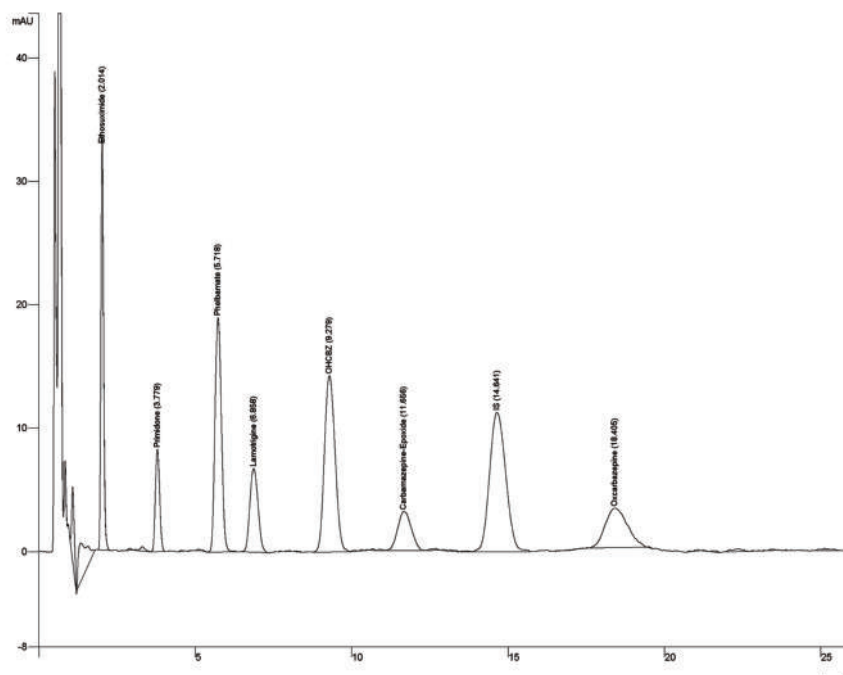
INSIGHTS

Treatment of an epileptic patient requires pharmacological and psychological contributions. In such a context the pharmacological therapy and the consequent monitoring have a decisive role in the immediate control of epileptic crisis and in the prevention in the medium/long run of recurrence. Thanks to the monitoring of plasmatic concentrations of antiepileptic pharmaceuticals, it is in some cases possible to personalize the treatment for a single patient.

34	Z03310	Lamotrigine in serum and in plasma by UV - FAST	1 x 100 tests
	Z03311	Lamotrigine in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
	Z03016	Calibrator for Lamotrigine in plasma	4 x 2 ml
	Z03019	Control for Lamotrigine in plasma - Levels 1 and 2	2 x 5 x 2 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
35	Z42110	Lamotrigine and 10,11-Dihydro-10-Hydroxycarbazepine in serum and in plasma by UV - FAST	1 x 100 tests
	Z42111	Lamotrigine and 10,11-Dihydro-10-Hydroxycarbazepine in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
	Z04216	Calibrator for Lamotrigine and 10,11-Dihydro-10-Hydroxycarbazepine in in plasma	4 x 2 ml
	Z04219	Control for Lamotrigine and 10,11-Dihydro-10-Hydroxycarbazepine in plasma - Levels 1 and 2	2 x 5 x 2 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	HPLC	Pcs								
36	Z84010	Levetiracetam in Plasma by UV - FAST	1 x 100 tests								
	Z84011	Levetiracetam in Plasma - FAST - Mobile Phase	4 x 500 ml								
	Z04316	Calibrator for Levetiracetam in plasma	4 x 2 ml								
	Z04319	Control for Levetiracetam in plasma - Levels 1 and 2	2 x 5 x 2 ml								
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc								
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs								
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs								
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs								
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs								
		<div></div> <table><tr><th colspan="2">Plasma calibrator</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>3.2</td><td>Levetiracetam</td></tr><tr><td>6.6</td><td>IS</td></tr></table>	Plasma calibrator		RT (min)	Analyte	3.2	Levetiracetam	6.6	IS	
Plasma calibrator											
RT (min)	Analyte										
3.2	Levetiracetam										
6.6	IS										
37	Z79210	Perampanel in plasma by Fluorimetry - FAST	1 x 100 tests								
	Z79211	Perampanel in plasma - FAST - Mobile Phase	4 x 500 ml								
	Z79216	Calibrator for Perampanel in plasma	4 x 1 ml								
	Z79219	Control for Perampanel in plasma - Levels 1 and 2	2 x 5 x 1 ml								
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc								
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs								
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs								
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs								
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs								

N°	Code	HPLC	Pcs
38	Z77010	Topiramate in plasma by Fluorimetry (Extractive Method)	1 x 100 tests
	Z77011	Topiramate in plasma - Mobile Phase	4 x 500 ml
	Z77016	Calibrator for Topiramate in plasma	4 x 5 ml
	Z77019	Control for Topiramate in plasma - Levels 1 and 2	2 x 5 x 5 ml
	ZTF25805154630	Hypersil Gold CN Eclipse Plus C18 Analytical column ~ 1000 injections (150 x 4,6 mm - 5 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
39	Z05310	Valproic Acid in plasma by UV - FAST	1 x 100 tests
	Z05311	Valproic Acid in plasma - FAST - Mobile Phase	4 x 500 ml
	Z05116	Calibrator for Valproic Acid in plasma	4 x 1 ml
	Z05119	Control for Valproic Acid in plasma - Levels 1 and 2	2 x 5 x 1 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
40	Z80010	Antiepileptics 1 in serum and in plasma by UV - FAST (Carbamazepine, Phenobarbital, Phenytoin)	1 x 100 tests
	Z80011	Antiepileptics 1 in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
	Z04016	Calibrator for Antiepileptics 1 in plasma (Carbamazepine, Phenobarbital, Phenytoin)	4 x 2 ml
	Z04019	Control for Antiepileptics 1 in plasma - Levels 1 and 2 (Carbamazepine, Phenobarbital, Phenytoin)	2 x 5 x 2 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	HPLC	Pcs																				
41	Z82010	Antiepileptics 3 in serum and in plasma by UV - FAST (Carbamazepine-Epoxide, Ethosuximide, Lamotrigine, 10,11-Dihydro-10-Hydroxycarbazepine, Oxcarbazepine, Primidone, Phelbamate)	1 x 100 tests																				
	Z82011	Antiepileptics 3 in serum and in plasma - FAST - Mobile Phase	4 x 500 ml																				
	Z04716	Calibrator for Antiepileptics 3 in plasma (Carbamazepine-Epoxide, Ethosuximide, Lamotrigine, 10,11-Dihydro-10-Hydroxycarbazepine, Oxcarbazepine, Primidone, Phelbamate)	4 x 2 ml																				
	Z04719	Control for Antiepileptics 3 in plasma - Levels 1 and 2 (Carbamazepine-Epoxide, Ethosuximide, Lamotrigine, 10,11-Dihydro-10-Hydroxycarbazepine, Oxcarbazepine, Primidone, Phelbamate)	2 x 5 x 2 ml																				
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc																				
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs																				
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs																				
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs																				
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs																				
	<div></div> <div><table><tr><th colspan="2">Plasma calibrator</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>2.0</td><td>Ethosuximide</td></tr><tr><td>3.8</td><td>Primidone</td></tr><tr><td>5.7</td><td>Phelbamate</td></tr><tr><td>6.9</td><td>Lamotrigine</td></tr><tr><td>9.3</td><td>10, 11-Dihydro-10-Hydroxycarbazepine (OHCBZ)</td></tr><tr><td>11.7</td><td>Carbamazepine-Epoxide</td></tr><tr><td>14.6</td><td>IS</td></tr><tr><td>18.4</td><td>Oxcarbazepine</td></tr></table></div>			Plasma calibrator		RT (min)	Analyte	2.0	Ethosuximide	3.8	Primidone	5.7	Phelbamate	6.9	Lamotrigine	9.3	10, 11-Dihydro-10-Hydroxycarbazepine (OHCBZ)	11.7	Carbamazepine-Epoxide	14.6	IS	18.4	Oxcarbazepine
Plasma calibrator																							
RT (min)	Analyte																						
2.0	Ethosuximide																						
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6.9	Lamotrigine																						
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11.7	Carbamazepine-Epoxide																						
14.6	IS																						
18.4	Oxcarbazepine																						

N°	Code	HPLC	Pcs
42	Z83010	Antiepileptics 4 in serum and in plasma by UV - FAST (10,11-Dihydro-10-Hydroxycarbazepine, Lamotrigine, Zonisamide)	1 x 100 tests
	Z83011	Antiepileptics 4 in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
	Z04816	Calibrator for Antiepileptics 4 in plasma (10,11-Dihydro-10-Hydroxycarbazepine, Lamotrigine, Zonisamide)	4 x 2 ml
	Z04819	Control for Antiepileptics 4 in plasma - Levels 1 and 2 (10,11-Dihydro-10-Hydroxycarbazepine, Lamotrigine, Zonisamide)	2 x 5 x 2 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
43	Z83110	Antiepileptics 5 in serum and in plasma by UV - FAST (Desmethyloximide, Lacosamide, Methsuximide, Phenytoin, Rufinamide)	1 x 100 tests
	Z83111	Antiepileptics 5 in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
	Z04916	Calibrator for Antiepileptics 5 in plasma (Desmethyloximide, Lacosamide, Methsuximide, Phenytoin, Rufinamide)	4 x 2 ml
	Z04919	Control for Antiepileptics 5 in plasma - Levels 1 and 2 (Desmethyloximide, Lacosamide, Methsuximide, Phenytoin, Rufinamide)	2 x 5 x 2 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
44	Z87010	Antiepileptics 6 in serum and in plasma by UV - FAST (10,11-Dihydro-10-Hydroxycarbazepine, Ethosuximide, Lacosamide, Lamotrigine, Primidone, Zonisamide)	1 x 100 tests
	Z87011	Antiepileptics 6 in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
	Z87016	Calibrator for Antiepileptics 6 in plasma (Lacosamide, Ethosuximide, Zonisamide, Primidone, Lamotrigine, 10,11-Dihydro-10-Hydroxycarbazepine)	4 x 2 ml
	Z87019	Control for Antiepileptics 6 in plasma - Levels 1 and 2 (Lacosamide, Ethosuximide, Zonisamide, Primidone, Lamotrigine, 10,11-Dihydro-10-Hydroxycarbazepine)	2 x 5 x 2 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	HPLC	Pcs
ANTIARRHYTHMICS			

INSIGHTS

Flecainide is a class IC antiarrhythmic drug according to the classification of Vaughan-Williams. It works by slowing the myocardial cell depolarization (phase 0), primarily on the conduction system of the His-Purkinje (conduction H-V) and, to a lesser extent, the nodal conduction and atrioventricular septal. **Propafenone** is anti-arrhythmic drug blocking sodium channels (Class IC). Its predominant effect is thus made by depression of the conduction velocity at the level of all the cardiac structures. **Verapamil** is an inhibitor of transmembrane flows of calcium ion, active on vascular smooth muscle and on myocyte in reducing myocardial contractility

45 **Z78010** **Antiarrhythmics in plasma by UV - FAST (Extractive Method)** 1 x 100 tests
(Flecainide, Propafenone, Verapamil)

Z78011	Antiarrhythmics in plasma - FAST - Mobile Phase	4 x 500 ml
Z78016	Calibrator for Antiarrhythmics in plasma (Flecainide, Propafenone, Verapamil)	4 x 2 ml
Z78019	Control for Antiarrhythmics in plasma - Levels 1 and 2 (Flecainide, Propafenone, Verapamil)	2 x 5 x 2 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

INSIGHTS

Amiodarone is an antiarrhythmic agent used for various types of tachyarrhythmias, both ventricular and supraventricular arrhythmias. Amiodarone shows beta blocker-like and calcium channel blocker-like actions on the SA and AV nodes, increases the refractory period via sodium -and potassium - channel effects, and slows intra-cardiac conduction of the cardiac action potential, via sodium-channel effects. Amiodarone is extensively metabolised in the liver, and can affect the metabolism of numerous other drugs.

46 **Z33610** **Amiodarone/Desethylamiodarone in serum and in plasma by UV - FAST** 1 x 100 tests

Z33611	Amiodarone/Desethylamiodarone in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
Z33016	Calibrator for Amiodarone/Desethylamiodarone in plasma	4 x 2 ml
Z33019	Control for Amiodarone/Desethylamiodarone in plasma - Levels 1 and 2	2 x 5 x 2 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

INSIGHTS

NEW

Sotalol is an active ingredient specifically used in the treatment cardiac arrhythmias. Among nonselective beta-blockers, sotalol is one of the most water-soluble and in addition to beta-blocking activity, is able to block the potassium channel, acting as an antiarrhythmic class III. This allows the use of the drug for atrial fibrillation in conjunction with ventricular tachyarrhythmias. Sotalol is a drug that has long been studied because of its unique pharmacological properties, showing both beta-blocking and blocking activity of the potassium channels.

47 **Z78110** **Sotalol in plasma by Fluorimetry - FAST** 1 x 100 tests

Z78111	Sotalol in plasma by Fluorimetry - FAST - Mobile Phase	4 x 500 ml
Z78116	Calibrator for Sotalol in plasma	4 x 1 ml
Z78119	Control for Sotalol in plasma – Levels 1 and 2	2 x 5 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	HPLC	Pcs
DRUGS FOR PANIC, ANXIETY OR MENTAL DISORDERS			

INSIGHTS

Benzodiazepines are elective drugs in the therapy of anxiety syndromes. Each benzodiazepine has different effects: anxiolytic, hypnotic, sedative, relaxant and anticonvulsive. All benzodiazepines are effective in episodes of anxiety and insomnia and the speed of action depends on how fast they can reach efficient Central Nervous System (CNS) concentrations. Treatment with benzodiazepines induces tolerance and addiction.

48	Z34610	Benzodiazepines 1 in serum and in plasma by UV - FAST (Extractive Method) (Bromazepam, Clonazepam, Chlordemethyldiazepam, Flunitrazepam, Lorazepam)	1 x 100 tests
	Z34611	Benzodiazepines 1 in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
	Z34016	Calibrator for Benzodiazepines 1 in serum (Bromazepam, Clonazepam, Chlordemethyldiazepam, Flunitrazepam, Lorazepam)	4 x 5 ml
	Z34019	Control for Benzodiazepines 1 in serum - Levels 1 and 2 (Bromazepam, Clonazepam, Chlordemethyldiazepam, Flunitrazepam, Lorazepam)	2 x 5 x 5 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
49	Z35610	Benzodiazepines 2 in serum and in plasma by UV - FAST (Extractive Method) (Clobazam, Diazepam, Midazolam, Nitrazepam, Nordiazepam)	1 x 100 tests
	Z35611	Benzodiazepines 2 in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
	Z35016	Calibrator for Benzodiazepines 2 in serum (Clobazam, Diazepam, Midazolam, Nitrazepam, Nordiazepam)	4 x 5 ml
	Z35019	Control for Benzodiazepines 2 in serum - Levels 1 and 2 (Clobazam, Diazepam, Midazolam, Nitrazepam, Nordiazepam)	2 x 5 x 5 ml
	Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

N°	Code	HPLC	Pcs										
<div><div>INSIGHTS</div><div>Clozapine is an atypical neuroleptic drug, belonging to the chemical family of Di-Benzodiazepines, widely used in the treatment of persistent schizophrenia. Unlike other neuroleptics, it does not induce extrapyramidal side effects, despite its efficacy. Its use is limited because it may cause agranulocytosis. From research it has been found that plasmatic levels of Clozapine and Norclozapine are influenced by factors such as: gender, age, compliance, caffeine intake, smoking and pharmacological interactions.</div></div>													
50	Z76610	Clozapine/Norclozapine in serum and in plasma by UV - FAST (Extractive Method)	1 x 100 tests										
Z76611	Clozapine/Norclozapine in serum and in plasma - FAST - Mobile Phase	4 x 500 ml											
Z76016	Calibrator for Clozapine and Norclozapine in plasma	4 x 2 ml											
Z76019	Control for Clozapine and Norclozapine in plasma - Levels 1 and 2	2 x 5 x 2 ml											
Z699975905	Poroshell 120, EC-CN Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc											
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs											
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs											
		<table><tr><th colspan="2">Serum calibrator</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>4.1</td><td>Norclozapine</td></tr><tr><td>5.6</td><td>Clozapine</td></tr><tr><td>8.8</td><td>IS</td></tr></table>	Serum calibrator		RT (min)	Analyte	4.1	Norclozapine	5.6	Clozapine	8.8	IS	
Serum calibrator													
RT (min)	Analyte												
4.1	Norclozapine												
5.6	Clozapine												
8.8	IS												

N°	Code	HPLC	Pcs
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INSIGHTS

Tricyclic Antidepressants (abbreviation TAD) are a class of antidepressant drugs first used in the 1950s. They are named after the drug's molecular structure, which contains three rings of atoms. They are used in numerous applications; mainly indicated for the treatment of clinical depression, neuropathic pain, nocturnal enuresis and attention-deficit hyperactivity disorder (ADHD), etc. Tricyclic antidepressants overdose is a significant cause of fatal drug poisoning.

51	Z56010	Tricyclic Antidepressants (TAD) in serum and in plasma by UV (Extractive Method) (Amitriptiline, Desipramine, Doxepine, Imipramine, Nordoxepine, Nortriptiline)	1 x 100 tests
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Z56011	Tricyclic Antidepressants in serum and in plasma Mobile Phase	4 x 500 ml
Z56016	Calibrator for Tricyclic Antidepressants in plasma (Amitriptiline, Desipramine, Doxepine, Imipramine, Nordoxepine, Nortriptiline)	4 x 5 ml
Z56019	Control for Tricyclic Antidepressants in plasma - Levels 1 and 2 (Amitriptiline, Desipramine, Doxepine, Imipramine, Nordoxepine, Nortriptiline)	2 x 5 x 5 ml
ZTF25805154630	Hypersil Gold CN Analytical column ~ 1000 injections (150 x 4,6 mm - 5 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

IMMUNOSUPPRESSANT**INSIGHTS**

Mycophenolic Acid or Mycophenolate is an immunosuppressant drug used to prevent rejection in organ transplantation. It was initially marketed as the prodrug mycophenolate mofetil to improve oral bioavailability. Mycophenolate mofetil is metabolized in the liver to active moiety mycophenolic acid. It inhibits Inosine monophosphate dehydrogenase, the enzyme which controls the rate of synthesis of guanine monophosphate in the *de novo* pathway of purine synthesis used in the proliferation of B and T lymphocytes. Mycophenolate is potent and can be used in place of the older antiproliferative azathioprine. It is usually used as part of triple-therapy including a calcineurin inhibitor (cyclosporin or tacrolimus) and prednisolone.

52	Z01960	Mycophenolic Acid in serum and in plasma by UV - FAST	1 x 100 tests
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Z01961	Mycophenolic Acid in serum and in plasma - FAST - Mobile Phase	4 x 500 ml
Z01916	Calibrator for Mycophenolic Ac. in plasma	4 x 2 ml
Z01919	Control for Mycophenolic Ac. in plasma - Levels 1 and 2	2 x 5 x 2 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	HPLC	Pcs
ANTI-INFECTIVE DRUGS			

NEW**INSIGHTS**

Technically, an "antibiotic" is defined as a substance of natural origin produced by a microorganism, capable of killing another. The term in the current common use indicates a drug, of natural origin or synthesis (chemotherapy) able to slow down or stop the proliferation of bacteria. Antibiotics are therefore divided into bacteriostatic (i.e. they block the reproduction of the bacterium, preventing its splitting) and bactericidal (i.e. they directly kill the micro-organism). Usually they have no effect against viruses, fungi and parasites, on which other kinds of chemotherapy act.

53 **Z91010** **Antibiotics in plasma by UV – FAST** 1 x 100 tests
(Ampicillin, Ceftriaxone, Ciprofloxacin, Ceftazidime, Cefoxitin, Daptomycin, Levofloxacin, Linezolid, Meropenem, Piperacillin, Tazobactam)

Z91011	Antibiotics in plasma by UV – FAST - Mobile Phase	4 x 500 ml
Z91016	Calibrator for Antibiotics in plasma (Ampicillin, Ceftriaxone, Ciprofloxacin, Ceftazidime, Cefoxitin, Daptomycin, Levofloxacin, Linezolid, Meropenem, Piperacillin, Tazobactam)	4 x 1 ml
Z91019	Control for Antibiotics in plasma – Levels 1 and 2 (Ampicillin, Ceftriaxone, Ciprofloxacin, Ceftazidime, Cefoxitin, Daptomycin, Levofloxacin, Linezolid, Meropenem, Piperacillin, Tazobactam)	2 x 5 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection) 1 x 10 Pcs	1 x 10 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume from 15 µl to 1,5 ml and for amber vial	1 x 100 Pcs

INSIGHTS

Systemic fungus infections are the main cause of death in patients where the immune system is compromised because of cancer or chemotherapy, organ transplants or HIV-1. Fungi commonly cause superficial infections of the skin or other soft tissues. A correct monitoring of plasmatic levels of antimycotics is necessary, in order to make sure the concentration is sufficient but not too toxic.

54 **Z79010** **Antimycotics in plasma by Fluorimetry - FAST** 1 x 100 tests
(Hydroxy Itraconazole, Itraconazole, Posaconazole, Voriconazole)

Z79011	Antimycotics in plasma - FAST - Mobile Phase	4 x 500 ml
Z79016	Calibrator for Antimycotics in plasma (Hydroxy Itraconazole, Itraconazole, Posaconazole, Voriconazole)	4 x 1 ml
Z79019	Control for Antimycotics in plasma - Levels 1 and 2 (Hydroxy Itraconazole, Itraconazole, Posaconazole, Voriconazole)	2 x 5 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

ANTI-DIABETES DRUGS**INSIGHTS**

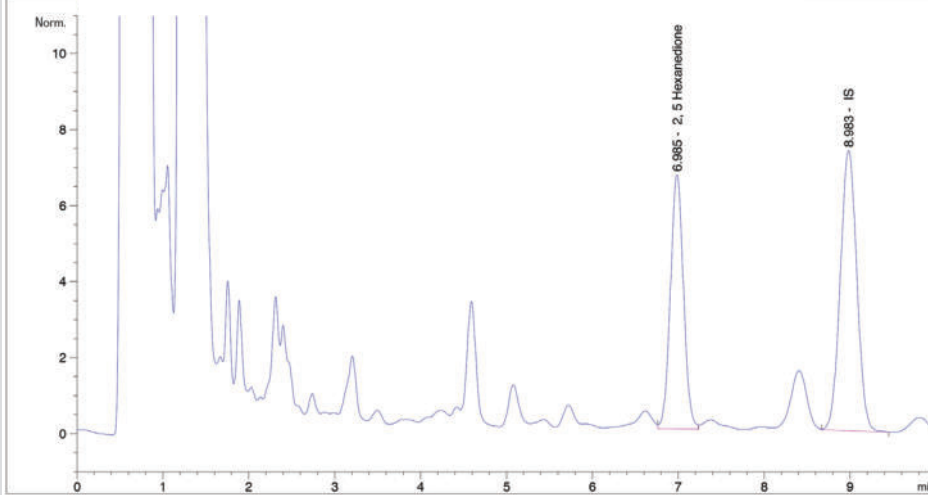
The metformin active ingredient with euglycemic action, is the drug of choice for the treatment of type 2 diabetes as monotherapy or in combination with sulfonylureas or insulin. Moreover, in adults, particularly in overweight, it is used as the first line after the failure of diet therapy, in monotherapy or in combination with other oral agents or insulin euglycemic; in children from 10 years of age and adolescents, alone or in combination with insulin.

55 **Z88110** **Metformin in serum by UV/VIS - FAST** 1 x 100 tests

Z88111	Metformin in serum - FAST - Mobile Phase	4 x 500 ml
Z88110B	Reagent B - Conditioning Sol. and Column Wash - Metformin in serum	1 x 500 ml
Z88116	Calibrator for Metformin in serum	4 x 2 ml
Z88119	Control for Metformin in serum - Levels 1 and 2	2 x 5 x 2 ml
Z51902433	Bio SCX NP10 Analytical column ~ 1000 injections (250 x 4,6 mm - 10 µm) specific for Metformin	1 Pc
Z51902434	Prefilters Bio SCX NP10 (4 x 10 mm) specific for Metformin	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs



OCCUPATIONAL TOXICOLOGY

N°	Code	HPLC	Pcs							
56	Z05210	<div><div>INSIGHTS</div><div>2,5 Hexanedione is an aliphatic diketone. It is a product of biochemical transformation of hexane. Hexane is a common component of glues used in the production of shoes or leathers. Inhalation is the major way of absorption, while ingestion, eye and skin absorption can also occur. It is then metabolised into 2,5 hexanedione and eliminated by urine. For these reasons 2,5 hexanedione testing is used to determine the risk of exposure to hexane. Additionally, 2,5 hexanedione levels are related to the quantity of hexane adsorbed. From a clinical point of view 2,5 hexanedione is considered one of the most important metabolites of hexane in the development of polyneuropathies in leather workers and shoemakers.</div></div> <div>Total 2,5 Hexanedione in urine by UV - FAST</div>	1 x 100 tests							
	Z05211	Total 2,5 Hexanedione in urine - FAST - Mobile Phase	4 x 500 ml							
	Z05020	Liquid Calibrator for 2,5 Hexanedione in urine	2 x 5 ml							
	Z959961902	Zorbax Eclipse Plus C18 Analytical column ~ 1000 injections (100 x 4,6 mm - 3,5 µm)	1 Pc							
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs							
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs							
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs							
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs							
		<div><table><tr><th colspan="2">Urine calibrator</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>7.0</td><td>2, 5 Hexanedione</td></tr><tr><td>9.0</td><td>IS</td></tr></table></div>	Urine calibrator		RT (min)	Analyte	7.0	2, 5 Hexanedione	9.0	IS
Urine calibrator										
RT (min)	Analyte									
7.0	2, 5 Hexanedione									
9.0	IS									

N°	Code	HPLC	Pcs
57	Z05910	Free 2,5 Hexanedione in urine by Fluorimetry - FAST (Extractive Method)	1 x 100 tests
			
	Z05911	Free 2,5 Hexanedione in urine - FAST - Mobile Phase	4 x 500 ml
	Z05020	Liquid Calibrator for 2,5 Hexanedione in urine	2 x 5 ml
	Z959943902	Zorbax Eclipse Plus 120 EC - C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 3,5 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

N°	Code	HPLC	Pcs
58	Z42210	INSIGHTS Acetone is a colorless, mobile, flammable liquid. It is readily soluble in water, ethanol, ether etc., and itself serves as an important solvent. Acetone is the strongest consumer-grade solvent available. It is ideal for thinning fibreglass resin, cleaning fibreglass tools and dissolving two-part epoxies and superglue before hardening. Acetone is an irritant and inhalation may lead to hepatotoxic effects (causing liver damage). The vapours should be avoided. In no circumstance should it be consumed directly or indirectly. Always use goggles when handling Acetone; it can cause permanent eye damage (corneal clouding). Small amounts of Acetone are metabolically produced in the body, mainly from fat. In Humans, fasting significantly increases its endogenous production (ketosis). Acetone can be elevated in diabetes. Accidental intake of large amounts of Acetone may lead to unconsciousness and death.	1 x 100 tests
		Acetone in urine by UV - FAST (Extractive Method)	
		Z42211 Acetone in urine - FAST - Mobile Phase	
		Z42020 Liquid Calibrator for Acetone in urine	
		Z699975902 Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	
		S90199511 Javelin Prefilter (Analytical column protection)	
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	
59	Z45610	INSIGHTS Methanol, also known as methyl alcohol, carbinol, wood alcohol, wood naphtha or wood spirits, is a chemical compound with chemical formula CH ₃ OH (often abbreviated MeOH). It is the simplest alcohol, and is a light, volatile, colourless, flammable, poisonous liquid with a distinctive odour that is somewhat milder and sweeter than ethanol (ethyl alcohol). At room temperature it is a polar liquid and is used as an antifreeze, solvent, fuel, and as a denaturant for ethyl alcohol. It is also used for producing biodiesel via transesterification reaction. The largest use of methanol by far, is in making other chemicals. About 40% of methanol is converted to formaldehyde, and from there into products as diverse as plastics, plywood, paints, explosives and permanent press textiles. Methanol is toxic by two mechanisms. Firstly, methanol (whether it enters the body by ingestion, inhalation, or absorption through the skin) can be fatal due to its CNS depressant properties in the same manner as ethanol poisoning. Secondly, it is toxic by its breakdown (toxication) by the enzyme alcohol dehydrogenase in the liver by forming formic acid and formaldehyde which cause permanent blindness by destruction of the optic nerve. Fetal tissue will not tolerate methanol. Dangerous doses will build up if a person is regularly exposed to vapours or handles liquid without skin protection. If methanol has been ingested, a doctor should be contacted immediately. The usual fatal dose is 100-125 mL. Toxic effects take hours to start, and effective antidotes can often prevent permanent damage.	1 x 100 tests
		Methanol in urine by UV - FAST	
		Z45611 Methanol in urine - FAST - Mobile Phase	
		Z05620 Liquid Calibrator for Methanol in urine	
		Z699975902 Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	
		S90199511 Javelin Prefilter (Analytical column protection)	
		S51843550 Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	
		S51820717 Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	

N°	Code	HPLC	Pcs
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INSIGHTS

The determination of Hippuric Acid (HPA) in urine is important to evaluate the risk due to exposure to Toluene. Toluene is metabolised mostly in Benzoic Acid and subsequently combined with Glycine is eliminated by urine as Hippuric Acid. The determination of o-m-p Methylhippuric Acid (m-MHPA, o-MHPA and p-MHPA) is important to evaluate the risk due to exposure to a mixture of o-m-p-Xylene. Xylene, which is present as a mixture of three isomers o-m-p, is metabolised in o-m-p-Methyl-Benzoic and after conjugation with Glycine is eliminated by urine as a mixture of o-m-p-Methyl-Hippuric Acids.

60 **Z06110 Hippuric Acid/o-m-p-Methylhippuric Acids in urine by UV - FAST** 1 x 100 tests

61 **Z06115 Hippuric Acid/o-m-p-Methylhippuric Acids in urine by UV - FAST** 1 x 500 tests

Z06111	Hippuric Ac./o-m-p-Methylhippuric Ac. in urine - FAST - Mobile Phase	4 x 500 ml
Z06016	Multiparametric Calibrator for 6 Parameters in urine (Hippuric Acid, Mandelic Acid, Phenylglyoxylic Acid, Total Methylhippuric Acids)	4 x 5 ml
Z38019	Multiparametric Control for Toxic Organic Compounds in urine - Levels 1 and 2 (1-Hydroxypyrene, 1,2-Cyclohexanediol, Hippuric Acid, Mandelic Acid, Phenylglyoxylic Acid, S-phenylmercapturic Acid, t,t-Muconic Acid, Total Methylhippuric Acids, Trichloroacetic Acid)	2 x 5 x 10 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

INSIGHTS

The determination of Phenylglycolic Acid and Mandelic Acid is used for the biological monitoring of individuals exposed to Styrene. Styrene is in fact transformed by the organism in Styrene-Oxide first, then in Phenyl-Ethyl-Glycol and lastly to Mandelic and Phenylglycolic Acid, which are expelled without further modifications.

62 **Z07110 Phenylglyoxylic Acid/Mandelic Acid in urine by UV - FAST** 1 x 100 tests

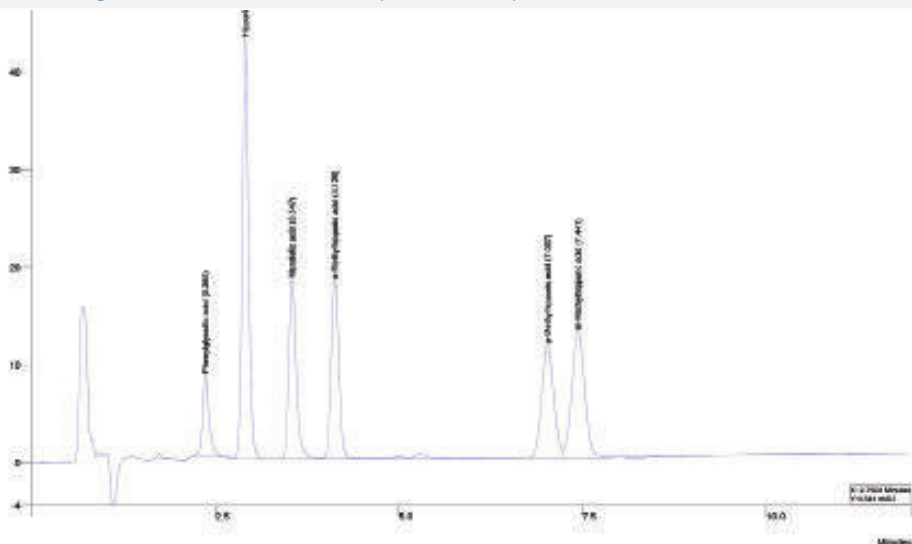
Z07111	Phenylglyoxylic Acid/Mandelic Acid in urine - FAST - Mobile Phase	4 x 500 ml
Z06016	Multiparametric Calibrator for 6 Parameters in urine (Hippuric Acid, Mandelic Acid, Phenylglyoxylic Acid, Total Methylhippuric Acids)	4 x 5 ml
Z38019	Multiparametric Control for Toxic Organic Compounds in urine - Levels 1 and 2 (1-Hydroxypyrene, 1,2-Cyclohexanediol, Hippuric Acid, Mandelic Acid, Phenylglyoxylic Acid, S-phenylmercapturic Acid, t,t-Muconic Acid, Total Methylhippuric Acids, Trichloroacetic Acid)	2 x 5 x 10 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

N°	Code	HPLC	Pcs
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INSIGHTS

The determination of urinary Hippuric Acid is used for the biological monitoring of people exposed to Toluene. Toluene is transformed in the organism mostly to Benzoic Acid, which, after conjugating with Glycine, is expelled by urine under the form of Hippuric Acid. The determination of o-m-p-Methylhippuric Acids is used for the biological monitoring of people exposed to o-m-p-Xylene. Xylene is present as a mixture of the three isomers o-m-p and it is transformed in a mixture of o-m-p-Methyl-Benzoic Acids which after conjugation with Glycine are expelled as a mixture of o-m-p-Methylhippuric Acids by urine.

63	Z06610	Phenylglyoxilic/Mandelic/Hippuric/o-m-p-Methylhippuric Acids in urine by UV - FAST	1 x 100 tests
64	Z06615	Phenylglyoxilic/Mandelic/Hippuric/o-m-p-Methylhippuric Acids in urine by UV - FAST	1 x 500 tests

Z06611	Phenylglyoxilic/Mandelic/Hippuric/o-m-p-Methylhippuric Acids in urine - FAST - Mobile Phase	4 x 500 ml																
Z06016	Multiparametric Calibrator for 6 Parameters in urine (Hippuric Acid, Mandelic Acid, Phenylglyoxilic Acid, Total Methylhippuric Acids)	4 x 5 ml																
Z38019	Multiparametric Control for Toxic Organic Compounds in urine - Levels 1 and 2 (1-Hydroxypyrene, 1,2-Cyclohexanediol, Hippuric Acid, Mandelic Acid, Phenylglyoxilic Aci, S-phenylmercapturic Acid, t,t-Muconic Acid, Total Methylhippuric Acids, Trichloroacetic Acid)	2 x 5 x 10 ml																
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc																
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs																
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs																
	<div></div> <table><tr><th colspan="2">Urine control (level 1)</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>2.4</td><td>Phenylglyoxilic acid</td></tr><tr><td>2.9</td><td>Hippuric acid</td></tr><tr><td>3.5</td><td>Mandelic acid</td></tr><tr><td>4.1</td><td>o-Methylhippuric acid</td></tr><tr><td>7.0</td><td>p-Methylhippuric acid</td></tr><tr><td>7.4</td><td>m-Methylhippuric acid</td></tr></table>	Urine control (level 1)		RT (min)	Analyte	2.4	Phenylglyoxilic acid	2.9	Hippuric acid	3.5	Mandelic acid	4.1	o-Methylhippuric acid	7.0	p-Methylhippuric acid	7.4	m-Methylhippuric acid	
Urine control (level 1)																		
RT (min)	Analyte																	
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7.4	m-Methylhippuric acid																	

Urine control (level 1)	
RT (min)	Analyte
2.4	Phenylglyoxilic acid
2.9	Hippuric acid
3.5	Mandelic acid
4.1	o-Methylhippuric acid
7.0	p-Methylhippuric acid
7.4	m-Methylhippuric acid

N°	Code	HPLC	Pcs
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INSIGHTS

t,t- Muconic Acid (t,t-MA) is proposed as a valid, sensitive and reliable biological marker for workers exposed to Benzene. It is a chemical frequently present in mineral oils and it is easily formed in combustion processes. There is therefore an important polluting risk. Its levels in the atmosphere can easily increase because of combustions of carbon and petrol, stocking and leakages of benzene, vehicles exhaustions and evaporations from gas distributors. Acute benzene exposition can cause vertigo, sleepiness, dizziness, tachycardia, tremors, confusion or unconsciousness or even death. It was demonstrated that Benzene has toxic effects on the erythropoiesis process and was identified as carcinogenic, can cause anemia, bleeding and can damage the immune system and reproductive organs.

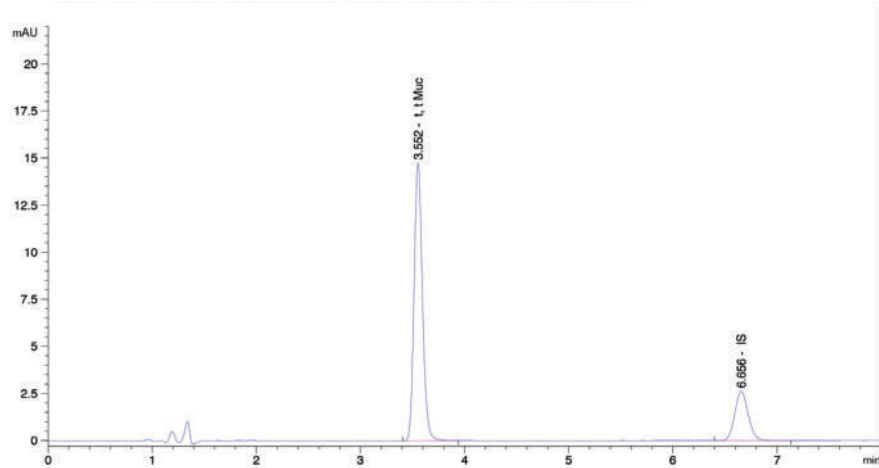
65

Z23210

t,t- Muconic Acid in urine by UV - FAST (Extractive Method)

1 x 100 tests

Z23211	t,t- Muconic Acid in urine - FAST - Mobile Phase	4 x 500 ml
Z23016	Calibrator for t,t-Muconic Acid in urine	4 x 5 ml
Z38019	Multiparametric Control for Toxic Organic Compounds in urine - Levels 1 and 2 (Hippuric Acid, 1-Hydroxypyrene, 1,2-Cyclohexanediol, Total Methylhippuric Acids, Mandelic Acid, t,t-Muconic Acid, Trichloroacetic Acid, S-phenylmercapturic Acid, Phenylglyoxylic Acid)	2 x 5 x 10 ml
Z959961902	Zorbax Eclipse Plus C18 Analytical column ~ 1000 injections (100 x 4,6 mm - 3,5 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs



Test solution	
RT (min)	Analyte
3.6	t, t Muconic acid (t,t Muc)
6.7	IS

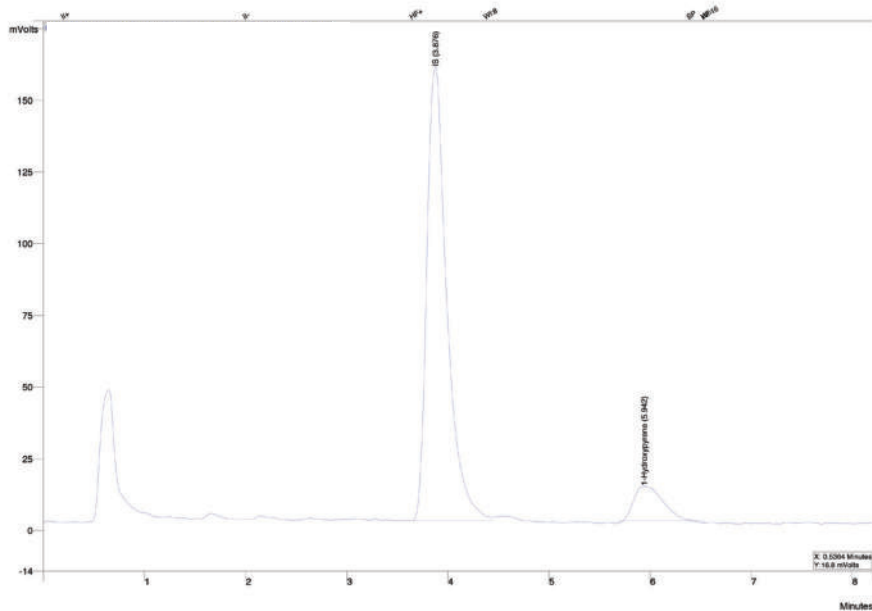
N°	Code	HPLC	Pcs
66	Z23110	INSIGHTS S-Phenylmercapturic Acid (S-PMA) is a urinary metabolite of Benzene, deriving from the conjugation of the Benzene-Epoxy intermediate with Glutathione. The S-PMA metabolite was recently put on the list of biological indicators for Benzene exposure. S-phenylmercapturic Acid in urine by Fluorimetry - FAST (Extractive Method) Attention: This test needs a binary gradient pump!	1 x 100 tests
		Z23121 S-phenylmercapturic Acid in urine - FAST - Mobile Phase M1	4 x 500 ml
		Z23131 S-phenylmercapturic Acid in urine - FAST - Mobile Phase M2	4 x 500 ml
		Z23116 Calibrator for S-phenylmercapturic Acid in urine	4 x 10 ml
		Z38019 Multiparametric Control for Toxic Organic Compounds in urine - Levels 1 and 2 (1-Hydroxypyrene, 1,2-Cyclohexanediol, Hippuric Acid, Mandelic Acid, Phenylglyoxylic Acid, S-phenylmercapturic Acid, t,t-Muconic Acid, Total Methylhippuric Acids, Trichloroacetic Acid)	2 x 5 x 10 ml
		Z699975902 Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
		S90199511 Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
67	Z24110	INSIGHTS MEK, also known as methyl ethyl ketone or butanone, occurs as a colorless liquid with a sweet smell like acetone. It is volatile, flammable and potentially explosive. It is mainly used as a solvent, and for this reason it is used in processes involving rubbers, resins, nitrocellulose coatings, cellulose acetate and vinyl films. MEK is absorbed through the skin and through inhalation. It causes irritation to the nose and throat at concentrations close to 100 ppm, and eyes at 200 ppm. Facial dermatitis is reported at concentrations of between 300 and 600 ppm; at higher concentrations it can cause narcosis. In literature it is also described as a possible cause of optic neuritis due probably to its transformation into methanol. The half life of exhaled MEK is approximately 60 minutes and in blood is about 4 hours. Although it is metabolized in the body, it is also found unchanged in the urine.	1 x 100 tests
		Methyl-Ethyl-Ketone in urine (MEK) by UV - FAST (Extractive Method)	
		Z24111 Methyl-Ethyl-Ketone in urine (MEK) - FAST - Mobile Phase	
		Z24020 Liquid Calibrator for Methyl-Ethyl-Ketone (MEK) in urine	
		Z699975902 Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	
		S90199511 Javelin Prefilter (Analytical column protection)	
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	

N°	Code	HPLC	Pcs
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INSIGHTS

1-Hydroxypyrene is a metabolic product of polycyclic aromatic hydrocarbons (PAH) in human urine. The generic term PAH represents more than 200 aromatic compounds with condensed ring systems. Just as a large number of PAHs have been shown to be highly carcinogenic in animal experiments, exposure to PAH can be a serious danger to human organism as well. Intake of PAHs may occur primarily in the lungs and the gastro-intestinal tract or through the skin as a secondary route. 1 - Hydroxypyrene is excreted in urine conjugated with glucuronic acid and with sulfate. To free it for analysis, the sample is hydrolyzed with β -glucuronidase arilsulfatase for 16 h at 37 °C at pH=5.0. Among PAH metabolites 1-hydroxypyrene is the most important biomarker for the evaluation of occupational related PAH exposure.

68	Z38210	1-Hydroxypyrene in urine by Fluorimetry - FAST (Extractive Method)	1 x 100 tests
69	Z38215	1-Hydroxypyrene in urine by Fluorimetry - FAST (Extractive Method)	1 x 500 tests

Z38211	1-Hydroxypyrene in urine - FAST - Mobile Phase	4 x 500 ml								
Z38016	Calibrator for 1-Hydroxypyrene in urine	4 x 10 ml								
Z38019	Multiparametric Control for Toxic Organic Compounds in urine - Levels 1 and 2 (1-Hydroxypyrene, 1,2-Cyclohexanediol, Hippuric Acid, Mandelic Acid, Phenylglyoxylic Aci, S-phenylmercapturic Acid, t,t-Muconic Acid, Total Methylhippuric Acids, Trichloroacetic Acid)	2 x 5 x 10 ml								
Z959961902	Zorbax Eclipse Plus C18 Analytical column ~ 1000 injections (100 x 4,6 mm - 3,5 μm)	1 Pc								
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs								
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs								
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs								
	<div><table><tr><th colspan="2">Urine calibrator</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>3.9</td><td>IS</td></tr><tr><td>5.9</td><td>1-Hydroxypyrene</td></tr></table></div>	Urine calibrator		RT (min)	Analyte	3.9	IS	5.9	1-Hydroxypyrene	
Urine calibrator										
RT (min)	Analyte									
3.9	IS									
5.9	1-Hydroxypyrene									

N°	Code	HPLC	Pcs
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INSIGHTS

Phenol is used in numerous organic synthesis and disinfectants. It is toxic by itself if absorbed through the skin, respiratory system or, accidentally, through the digestive system. In the organism, Phenol, is partially conjugated with Sulfuric Acid and Glucuronic Acid. Phenol is irritant to mucous, eyes and skin. O-Cresol is a urinary metabolite of Toluene, a substance used in the production of commonly used materials (glues, paints, lacquers, ink etc.) and it is present also as a micro pollutant in the environment. Thus all the population is exposed to modest concentrations of Toluene. 20% of the absorbed amount is expelled unmodified by the respiratory system and the remainder is biologically transformed. The main metabolites are Hippuric Acid, O-Cresol and Benzoic Acid.

70 **Z55310** **o-Cresol and Phenol in urine by Fluorimetry - FAST** 1 x 100 tests

71 **Z55315** **o-Cresol and Phenol in urine by Fluorimetry - FAST** 1 x 500 tests

Z55311	o-Cresol and Phenol in urine - FAST - Mobile Phase	4 x 500 ml
Z55016	Calibrator for o-Cresol and Phenol in urine	4 x 1 ml
Z55019	Control for o-Cresol and Phenol in urine - Levels 1 and 2	2 x 5 x 1 ml
Z699975408	Poroshell 120 PFP Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

INSIGHTS

The determination of Zinc Protoporphyrin (ZPP-WB) is used as a diagnostic test for lead poisoning which inhibits the activity of the enzyme heme-synthetase thus increasing the concentration of Protoporphyrin (PP) in the blood. Protoporphyrin binds to Zinc to form Zinc Protoporphyrin. Zinc Protoporphyrin is formed as a metabolite in the presence of high concentrations of lead because it interferes with ferrochelatase in the bond between Iron and PP.

72 **Z39110** **Free Eritrocitary Protoporphyrin IX (PPIX) and Zinc Protoporphyrin (ZnPP) in whole blood by Fluorimetry - FAST** 1 x 100 tests

Z39111	Free Eritrocitary PPIX and ZnPP in whole blood - FAST - Mobile Phase	4 x 500 ml
Z39016	Calibrator for PPIX and Znpp in whole blood	1 x 2 x 0,5 ml/ 4 x 1 ml
Z39019	Control for PPIX and Znpp in whole blood - Levels 1 and 2	1 x 4 x 0,5 ml/ 10 x 1 ml
Z699975902	Poroshell 120, EC-C18 Analytical column ~ 1000 injections (50 x 4,6 mm - 2,7 µm)	1 Pc
S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs



FORENSIC TOXICOLOGY

N°	Code	HPLC	Pcs
CHRONIC ALCOHOL ABUSE			

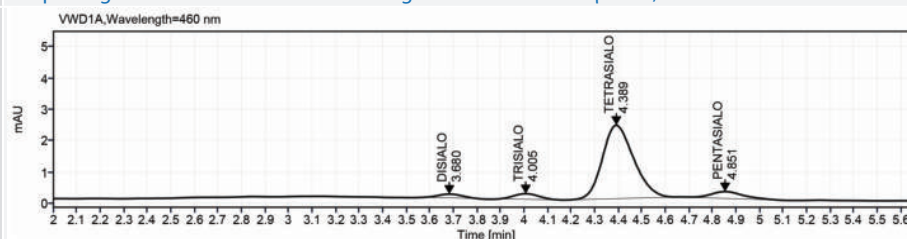
INSIGHTS

At the end of the 1970s it was demonstrated that there was a correlation between excessive alcohol consumption and increased concentrations of transferrin at low glycosylation levels (CDT). Thus CDT is a marker of chronic alcohol abuse. Both asialo and disialo transferrin are clearly correlated to chronic alcohol consumption, even though showing different grades of sensitivity and specificity. However the IFCC group has identified disialotransferrin as the target analyte for CDT.

73	Z68210	CDT test in serum by UV/VIS - FAST - Monoreagent <i>Binary gradient pump necessary!</i>	1 x 100 tests
74	Z68215	CDT test in serum by UV/VIS - FAST - Monoreagent <i>Binary gradient pump necessary!</i>	1 x 500 tests



Z68611	CDT Test in serum - FAST - Mobile Phase M1	4 x 500 ml
Z68711	CDT Test in serum - FAST - Mobile Phase M2	4 x 500 ml
Z68811	CDT Test in serum - FAST - Mobile Phase M3	4 x 500 ml
Z68019	Control for CDT Test in serum - Levels 1 and 2	2 x 5 x 1 ml
Z054998	SAX 10 G Analytical column ~ 1000 injections (50 x 4 mm - 5 µm)	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs


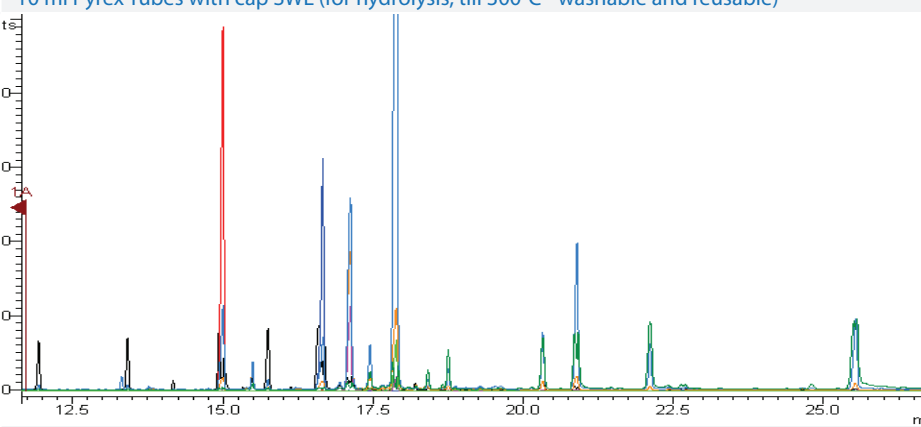


Serum control (level 2)	
RT (min)	Analyte
3.7	Disialotransferrin
4.0	Trisialotransferrin
4.4	Tetrasialotransferrin
4.9	Pentaisialotransferrin

GC-GC/MS



SPECIAL CLINICAL CHEMISTRY

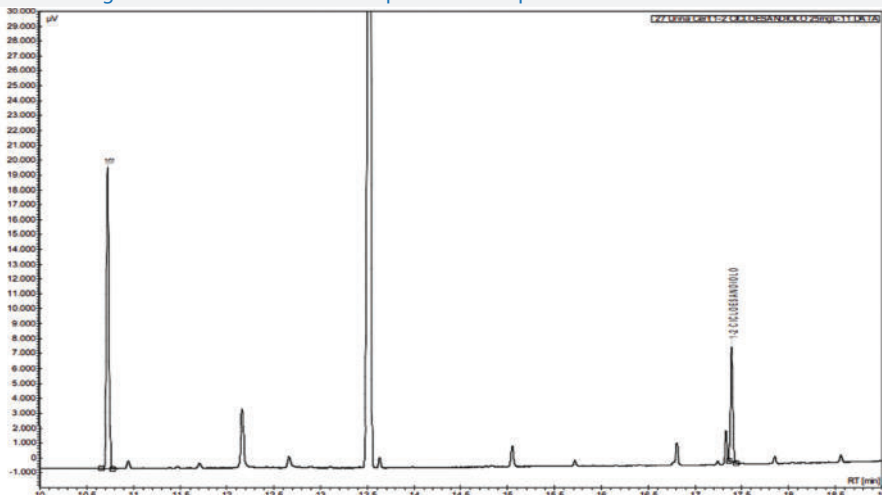
N°	Code	GC-GC/MS	Pcs																																				
METABOLIC DISORDERS																																							
75	GC75010	<p>INSIGHTS</p> <p>Fatty acids are biosynthesized in the human body from dietary fat, fat storage or endogenous lipids. Some polyunsaturated fatty acids cannot be biosynthesized through metabolic processes and need to be engaged under the diet. In order to prevent obesity and related metabolic disorders, as well as atherosclerotic and thromboembolic diseases it is necessary to analyze, quantify and monitor the concentration of long chain fatty acids in the plasma matrix. There are several studies linking high levels of polyunsaturated fatty acids omega-3 longchain (EPA and DHA) to a reduced risk of developing cardiovascular disease, the main cause of death in the world.</p> <p>Differentiated Fatty Acids in plasma by detector MS</p> <p>alfa-Linolenic Acid C18:3(omega 3), Arachidonic Acid C20:4(omega 6), DHA C22:6(omega 3), di-homogammalinolenic Acid C20:3(omega 6), Elaidic Acid C18:1-trans(omega 9), EPA C20:5(omega 3), gamma-Linolenic Acid C18:3(omega 6), Linoleic Acid C18:2-trans(omega 6), Linoleic Acid C18:2-cis (omega 6), Myristic Acid C14:0, Oleic Acid C18:1-cis(omega 9), Palmitic Acid C16:0, Palmitoleic Acid C16:1(omega 7), Stearic Acid C18:0</p>	1 x 100 tests																																				
																																							
	GC75016	<p>Calibrator for Differentiated Fatty Acids in plasma</p> <p>alfa-Linolenic Acid C18:3(omega 3), Arachidonic Acid C20:4(omega 6), DHA C22:6(omega 3), di-homogammalinolenic Acid C20:3(omega 6), Elaidic Acid C18:1-trans(omega 9), EPA C20:5(omega 3), gamma-Linolenic Acid C18:3(omega 6), Linoleic Acid C18:2-trans(omega 6), Linoleic Acid C18:2-cis (omega 6), Myristic Acid C14:0, Oleic Acid C18:1-cis(omega 9), Palmitic Acid C16:0, Palmitoleic Acid C16:1(omega 7), Stearic Acid C18:0</p>	4 x 1 ml																																				
	GC75019	<p>Control for Differentiated Fatty Acids in plasma - Levels 1 and 2</p> <p>alfa-Linolenic Acid C18:3(omega 3), Arachidonic Acid C20:4(omega 6), DHA C22:6(omega 3), di-homogammalinolenic Acid C20:3(omega 6), Elaidic Acid C18:1-trans(omega 9), EPA C20:5(omega 3), gamma-Linolenic Acid C18:3(omega 6), Linoleic Acid C18:2-trans(omega 6), Linoleic Acid C18:2-cis (omega 6), Myristic Acid C14:0, Oleic Acid C18:1-cis(omega 9), Palmitic Acid C16:0, Palmitoleic Acid C16:1(omega 7), Stearic Acid C18:0</p>	2 x 5 x 1 ml																																				
	S11288A7	Durabond HP-88 Analytical column ~ 1000 injections (100 m x 0,25 mm - 0,2 µm)	1 Pc																																				
	S29004U	Amber Glass Vials of 2 ml	1 x 100 Pcs																																				
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs																																				
	S24717	Glass insert for vials of 2 ml	1 x 100 Pcs																																				
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs																																				
		 <table border="1"> <caption>Plasma Calibrator</caption> <thead> <tr> <th>RT (min)</th><th>Analyte</th><th>RT (min)</th><th>Analyte</th></tr> </thead> <tbody> <tr> <td>13.8</td><td>Myristic Acid</td><td>18.3</td><td>Linoleic Acid (ω6)</td></tr> <tr> <td>15.4</td><td>Palmitic Acid</td><td>18.9</td><td>γ-Linolenic Acid (ω6)</td></tr> <tr> <td>15.9</td><td>Palmitoleic Acid (ω7)</td><td>19.2</td><td>α-Linolenic Acid (ω3)</td></tr> <tr> <td>16.2</td><td>IS</td><td>20.9</td><td>Dihomo-γ-linolenic Acid (ω6)</td></tr> <tr> <td>17.1</td><td>Stearic Acid</td><td>21.5</td><td>Arachidonic Acid (ω6)</td></tr> <tr> <td>17.4</td><td>Elaidic Acid(trans)</td><td>22.7</td><td>All cis 5,8,11,14,17 Eicosapentaenoic Acid (EPA ω3)</td></tr> <tr> <td>17.6</td><td>Oleic Acid</td><td>26.3</td><td>All cis 4,7,10,13,16,19 Docosahexaenoic Acid (DHA ω3)</td></tr> <tr> <td>17.8</td><td>Linoleic Acid(trans,trans)</td><td></td><td></td></tr> </tbody> </table>	RT (min)	Analyte	RT (min)	Analyte	13.8	Myristic Acid	18.3	Linoleic Acid (ω6)	15.4	Palmitic Acid	18.9	γ-Linolenic Acid (ω6)	15.9	Palmitoleic Acid (ω7)	19.2	α-Linolenic Acid (ω3)	16.2	IS	20.9	Dihomo-γ-linolenic Acid (ω6)	17.1	Stearic Acid	21.5	Arachidonic Acid (ω6)	17.4	Elaidic Acid(trans)	22.7	All cis 5,8,11,14,17 Eicosapentaenoic Acid (EPA ω3)	17.6	Oleic Acid	26.3	All cis 4,7,10,13,16,19 Docosahexaenoic Acid (DHA ω3)	17.8	Linoleic Acid(trans,trans)			
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OCCUPATIONAL TOXICOLOGY


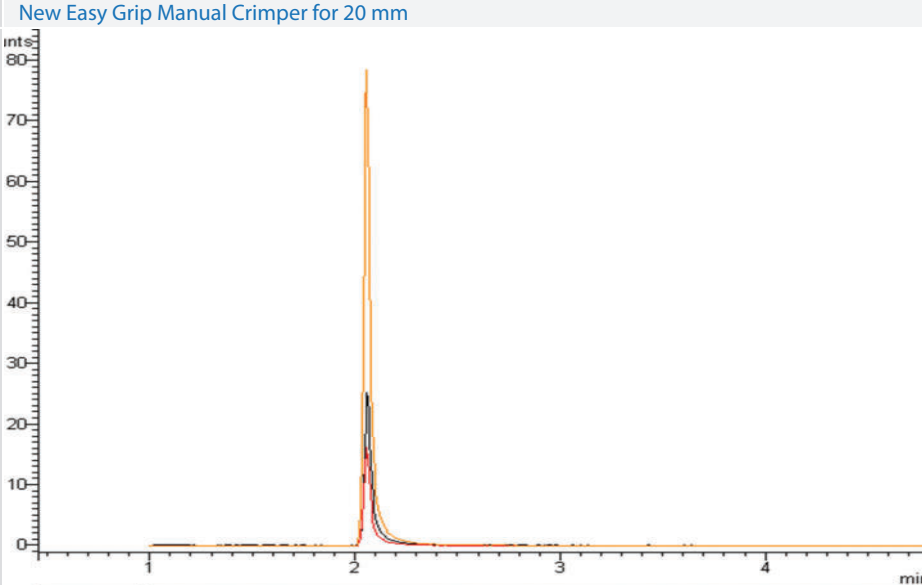
N°	Code	GC-GC/MS	Pcs	
76	GC01010	INSIGHTS Isobutyl Acetate is commonly used as solvent in lacquers and in nitrocellulose. It is an extremely flammable liquid.	1 x 100 tests	
		Butyl Acetate in urine by detector FID and MS		
		Liquid Calibrator for Butyl Acetate in urine		1 x 2 ml
		Rxi-624 SiIMS capillary column ~ 1000 injections (30 m x 0,32 mm - 1,8 µm)		1 Pc
		Standard glass Vial of 2 ml with screw cap for Autosampler		1 x 100 Pcs
		Glass insert for vials of 2 ml		1 x 100 Pcs
77	GC01510	INSIGHTS Ethyl acetate, at room temperature, appears as a volatile, colorless liquid with a pleasant fruity odor; it is a very flammable and irritating compound. It is widely used as a solvent for paints, resins and glues as it is relatively less toxic than other chlorinated solvents.	1 x 100 tests	
		Ethyl Acetate in urine by detector FID and MS		
		Liquid Calibrator for Ethyl Acetate in urine		1 x 2 ml
		Rxi-624 SiIMS capillary column ~ 1000 injections (30 m x 0,32 mm - 1,8 µm)		1 Pc
		Standard glass Vial of 2 ml with screw cap for Autosampler		1 x 100 Pcs
		Glass insert for vials of 2 ml		1 x 100 Pcs
78	GC02010	INSIGHTS Isobutyl Acetate is commonly used as solvent in lacquers and in nitrocellulose. It is an extremely flammable liquid.	1 x 100 tests	
		Isobutyl Acetate in urine by detector FID and MS		
		Liquid Calibrator for Isobutyl Acetate in urine		1 x 2 ml
		Rxi-624 SiIMS capillary column ~ 1000 injections (30 m x 0,32 mm - 1,8 µm)		1 Pc
		Standard glass Vial of 2 ml with screw cap for Autosampler		1 x 100 Pcs
		Glass insert for vials of 2 ml		1 x 100 Pcs
79	GC02510	INSIGHTS Methyl Acetate, at room temperature, is a volatile and colourless liquid, with a fruity odor. It is a very flammable and irritating compound. It is largely used as solvent for paints, resins and glues, being relatively less toxic than other Chlorine solvents.	1 x 100 tests	
		Methyl Acetate in urine by detector FID and MS		
		Liquid Calibrator for Methyl Acetate in urine		1 x 2 ml
		Rxi-624 SiIMS capillary column ~ 1000 injections (30 m x 0,32 mm - 1,8 µm)		1 Pc
		Standard glass Vial of 2 ml with screw cap for Autosampler		1 x 100 Pcs
		Glass insert for vials of 2 ml		1 x 100 Pcs
80	GC05510	INSIGHTS Butyl alcohol is a colourless liquid with an alcohol-like smell at room temperature. It is a flammable compound, dangerous, irritating and mixable with the most common organic solvents and almost totally mixable with water. It is used as a solvent in the production of paints and prevents opacification of transparent paint when drying in a wet environment. It is also used as an intermediate in the synthesis of ethers and esters, in which reactions it is also a solvent. It is also a solvent for glazes and paints, an additive in solvents used for industrial cleanings, additive for fuels etc.	1 x 100 tests	
		Butyl Alcohol in urine by detector FID		
		Liquid Calibrator for Butyl Alcohol in urine		1 x 2 ml
		Rxi-624 SiIMS capillary column ~ 1000 injections (30 m x 0,32 mm - 1,8 µm)		1 Pc
		Standard glass Vial of 2 ml with screw cap for Autosampler		1 x 100 Pcs
		Glass insert for vials of 2 ml		1 x 100 Pcs

N°	Code	GC-GC/MS	Pcs
81	GC06010	INSIGHTS Isobutyl Alcohol is a colourless liquid with an alcohol-like smell at room temperature. It is a flammable and irritant compound. It is mostly used as a solvent and intermediate in the synthesis of other substances.	1 x 100 tests
		Isobutyl Alcohol in urine by detector FID	
		GC05620 Liquid Calibrator for Isobutyl Alcohol in urine	
		ZRE13870 Rxi-624 SiIMS capillary column ~ 1000 injections (30 m x 0,32 mm - 1,8 µm)	
		S29057U Standard glass vials of 2 ml with screw cap for Autosampler	
		S24717 Glass insert for vials of 2 ml	
		ZRE24563 Syringe of 100 µl for liquid and gas injection, 1710 N with interchangeable pypston	1 Pc
82	GC06510	INSIGHTS Propyl Alcohol is a colourless liquid with an alcohol-like smell at room temperature. It is a very flammable and irritant compound used in the pharmaceutical industry and in the preparation of resins and in cellulose esters. It is found in nature in small quantities in many fermentation processes.	1 x 100 tests
		Propyl Alcohol in urine by detector FID	
		GC06520 Liquid Calibrator for Propyl Alcohol in urine	
		ZRE13870 Rxi-624 SiIMS capillary column ~ 1000 injections (30 m x 0,32 mm - 1,8 µm)	
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	
		S24717 Glass insert for vials of 2 ml	
		ZRE24563 Syringe of 100 µl for liquid and gas injection, 1710 N with interchangeable pypston	1 Pc
83	GC07010	INSIGHTS Isopropyl Alcohol, also called Isopropanol or 2-Propanol, is a colourless liquid with a very characteristic odor. It is widely used as a detergent, solvent, an additive in industries and printing, or as an intermediate in pharmaceutical and cosmetic industries. It is also used as an additive for fuels, car radiator liquid and disinfectant.	1 x 100 test
		Isopropyl Alcohol in urine by detector FID	
		GC06620 Liquid Calibrator for Isopropyl Alcohol	
		ZRE13870 Rxi-624 SiIMS capillary column ~ 1000 injections (30 m x 0,32 mm - 1,8 µm)	
		S29057U Standard Glass Vial of 2ml with Screw cap for Autosampler	
		S24717 Glass insert for vials of 2 ml	
		ZRE24563 Syringe of 100 µl for liquid and gas injection, 1710 N with interchangeable pypston	1 Pc
84	GC10510	INSIGHTS Methyl-Isobutyl-Ketone is a colorless and flammable liquid used in the laboratory as an organic solvent and in industries as a solvent for paints, glues tinctures etc. Exposure happens commonly through the respiratory system and to a lesser degree through the skin, therefore it can result irritate the mucous and skin. Exposure to high concentrations can cause vertigo, nausea and vomit that are rapidly reversible after exposure has ceased.	1 x 100 tests
		Methylisobutylketone in urine by detector MS-head space	
		GC10520 Liquid Calibrator for Methylisobutylketone in urine	
		SCP8944 VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		ZRE13623 RxiSiL-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		S51834475 Glass vials 10 ml for headspace (need the crimper)	
		S80100165 Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	
		S50404669 New Easy Grip Manual Crimper for 20 mm	
		S50404671 New Easy Grip Manual Decapper for 20 mm crimper top vials	
		ZRE24563 Syringe of 100 µl for liquid and gas injection, 1710 N with interchangeable pypston	1 Pc

N°	Code	GC-GC/MS	Pcs								
85	<div><div>NEW</div></div> GC11010	<div><div>INSIGHTS</div><div>Diethyl-ketone is a colourless liquid used in the laboratory as an organic solvent and in industries as a solvent for paints, glues, tinctures, etc. Absorption of this compound usually happens through the respiratory system and in a minority of cases through the skin and therefore can be irritating to mucous and skin. Its toxic power in the system is very limited. Elevated exposure can cause vertigo, nausea, vomit which are extremely reversible after the exposure has ceased.</div></div> <div>Diethylketone in urine by detector MS-head space</div>	1 x 100 tests								
	GC11020	Liquid Calibrator for Diethylketone in urine	1 x 2 ml								
	SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc								
	ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc								
	S51834475	Glass vials 10 ml for headspace (need the crimper)	1 x 100 Pcs								
	S80100165	Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	1 x 100 Pcs								
	S50404669	New Easy Grip Manual Crimper for 20 mm	1 Pc								
	S50404671	New Easy Grip Manual Decapper for 20 mm crimper top vials	1 Pc								
	ZRE24563	Syringe of 100 µl for liquid and gas injection, 1710 N with interchangeable pyston	1 Pc								
86	GC19310	<div><div>INSIGHTS</div><div>Trans 1,2 Cyclohexanediol is one of the products (together with 1,4 Cyclohexanediol) of the metabolism of Cyclohexane and it is present both in free form and conjugated form (circa 70%) in urine of individuals exposed to Cyclohexane but also Cyclohexanol and Cyclohexanone. In research conducted on individuals exposed to Cyclohexane, the various urinary metabolites were present in the following proportions: Cyclohexanol 0.5%, 1,2 Cyclohexanediol 23.4%, 1,4 Cyclohexanediol 11.3%. The same pattern is found following exposure to Cyclohexanol and Cyclohexanone.</div></div> <div>trans-1,2-Cyclohexanediol in urine by detector FID and MS</div>	1 x 100 tests								
		Mechanical Rotator recommended									
	Z19316	Calibrator for trans-1,2-Cyclohexanediol in urine	4 x 10 ml								
	Z38019	Multiparametric Control for Toxic Organic Compounds in urine - Levels 1 and 2 (Hippuric Acid, 1-Hydroxypyrene, 1,2-Cyclohexanediol, Total Methylhippuric Acids, Mandelic Acid, t,t-Muconic Acid, Trichloroacetic Acid, S-phenylmercapturic Acid, Phenylglyoxylic Acid)	5 x 2 x 10 ml								
	SCP9205	VF-WAX MS Column (30 m x 0,25 mm)	1 Pc								
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs								
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs								
		<div><table><tr><th colspan="2">Urine calibrator</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>10.9</td><td>IS</td></tr><tr><td>17.6</td><td>Trans 1,2 CYCLOHEXANEDIOL</td></tr></table></div>	Urine calibrator		RT (min)	Analyte	10.9	IS	17.6	Trans 1,2 CYCLOHEXANEDIOL	
	Urine calibrator										
RT (min)	Analyte										
10.9	IS										
17.6	Trans 1,2 CYCLOHEXANEDIOL										

N°	Code	GC-GC/MS	Pcs
		<p style="text-align: center;">INSIGHTS</p> <p>Tetrachloroethylene (or Perchloroethylene) is an organic halogen. At room temperature it is found as a colourless liquid with a chlorine smell. Non-flammable it is a harmful compound if inhaled and dangerous for the environment. Tetrachloroethylene is used in laundries for dry cleaning and degreasing, in clinical and pharmaceutical industries and for domestic use. Exposure to high concentrations of Tetrachloroethylene can cause damage to liver and kidneys.</p>	
87	GC15010	Tetrachloroethylene in urine by detector MS-head space	1 x 100 tests
	GC15020	Liquid Calibrator for Tetrachloroethylene in urine	1 x 2 ml
	SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	S51834475	Glass vials 10 ml for headspace (need the crimper)	1 x 100 Pcs
	S80100165	Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	1 x 100 Pcs
	S50404669	New Easy Grip Manual Crimper for 20 mm	1 Pc
	S50404671	New Easy Grip Manual Decapper for 20 mm crimper top vials	1 Pc
	ZRE24563	Syringe of 100 µl for liquid and gas injection, 1710 N with interchangeable pypston	1 Pc
		<p style="text-align: center;">INSIGHTS</p> <p>Methyl-Chloroacetate is the methyl ester of Trichloroacetic Acid. The latter is a fumigant solvent used for dry cleaning and degreasing. It is absorbed through inhalation and through the skin causing, at high doses, skin irritation and a nephrotoxic effect. It is found in the urine of individuals professionally exposed to trichloroethylene and other chlorine solvents or in the urine of addicts which are used to sniffing solvents or in cases of voluntary/involuntary ingestion of trichloroethylene or similar.</p>	
88	GC15510	Methyltrichloroacetate in urine by detector MS-head space	1 x 100 tests
	GC15520	Liquid Calibrator for Methyltrichloroacetate in urine	1 x 2 ml
	SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	S51834475	Glass vials 10 ml for headspace (need the crimper)	1 x 100 Pcs
	S80100165	Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	1 x 100 Pcs
	S50404669	New Easy Grip Manual Crimper for 20 mm	1 Pc
	S50404671	New Easy Grip Manual Decapper for 20 mm crimper top vials	1 Pc
	ZRE24563	Syringe of 100 µl for liquid and gas injection, 1710 N	1 Pc
		<p style="text-align: center;">INSIGHTS</p> <p>Trichloroethane is an alkyl halide at room temperature, which is presented as a colorless, sweet smelling liquid. Trichloroethane is used in the metalworking industry as a cleaner and degreaser and in the removal of PVC waste from metals such as silver and copper. In the electronics industry it is used as a solvent of photore-sist and as a co-solvent in the production of paints, inks, glues and adhesives. Trichloroethane is absorbed by inhalation and only 4% is metabolized via Cit. P-450 to Trichloroethanol and subsequently to trichloroacetic acid. 90% is exhaled. Trichloroethane affects the human central nervous system presenting the classic symptoms of intoxication such as vomiting, confusion, unconsciousness and in severe cases death.</p>	
89	GC16010	Trichloroethane in urine by detector MS-head space	1 x 100 tests
	GC16020	Liquid Calibrator for Trichloroetane in urine	1 x 2 ml
	SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	S51834475	Glass vials 10 ml for headspace (need the crimper)	1 x 100 Pcs
	S80100165	Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	1 x 100 Pcs
	S50404669	New Easy Grip Manual Crimper for 20 mm	1 Pc
	S50404671	New Easy Grip Manual Decapper for 20 mm crimper top vials	1 Pc
	ZRE24533	Syringe of 50 µl 705 N Syr (22S/51/2)	1 Pc

N°	Code	GC-GC/MS	Pcs
90	GC16110	INSIGHTS Trichloroethylene is used as a degreaser for metals, in the preparation of paints and to clean textiles. It is absorbed through inhalation and skin and it is deposited principally in lipidic tissues. It is mostly expelled through urine. 8% is expelled through exhalation. Exposure to high concentrations of Trichloroethylene causes sight problems, confusion, nausea and vomiting. Chronic exposure hits the central nervous system causing anxiety, headaches and vertigo.	1 x 100 tests
		Trichloroethylene in urine by detector MS-head space	
		Liquid Calibrator for Trichloroethylene in urine	
		VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		Glass vials 10 ml for headspace (need the crimper)	
		Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	
		New Easy Grip Manual Crimper for 20 mm	
		New Easy Grip Manual Decapper for 20 mm crimper top vials	
91	GC16510	INSIGHTS Trichloroethanol (TCE), and Trichloroacetic Acid (TCA) are the principal metabolites of Trichloroethylene and Perchloroethylene. Trichloroethylene is used as a degreaser for metals, in the preparations of paints and to clean textiles. It is absorbed through inhalation and skin and it is deposited principally in lipidic tissues. It is mostly expelled through urine. 8% is expelled through exhalation. Exposure to high concentrations of Trichloroethylene causes sight problems, confusion, nausea and vomiting. Chronic exposure hits the central nervous system causing anxiety, headaches and vertigo.	1 x 100 tests
		Trichloroethanol in urine by detector MS	
		Liquid Calibrator for Trichloroethanol in urine	
		VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	
		Standard glass Vial of 2 ml with screw cap for Autosampler	
		Syringe of 100 µl for liquid and gas injection, 1710 N	
		Syringe of 50 µl 705 N Syr (22S/51/2)	

N°	Code	GC-GC/MS	Pcs						
92	GC17010	<p>INSIGHTS</p> <p>Trichloroacetic Acid (TCA) is the most significant urinary metabolite of Trichloroethylene. It is a fumigant solvent used for dry cleaning and degreasing. It can be inhaled or absorbed through the skin and at high doses produces cutaneous irritation and a nephrotoxic effect. It is present in the urine of individuals professionally exposed to trichloroethylene vapour and other chlorinated solvents or in the urine of drug users who regularly snort solvents or in cases of voluntary or accidental ingestion of trichloroethylene or its derivatives. Analytical determination is based on the Fujiwara reaction that develops a red colour by reacting trichloroacetic acid with pyridine in an alkaline environment, however this methodology is aspecific. The proposed method determines trichloroacetic acid, after decarboxylation, injecting a urinary sample previously treated in the appropriate solvent into GC-MS or GC-ECD/head space.</p>							
		<p>Trichloroacetic Acid in urine by detector ECD and MS-head space</p>	1 x 100 tests						
									
Z17016		Calibrator for Trichloroacetic Acid in urine	4 x 1 ml						
Z38019		Multiparametric Control for Toxic Organic Compounds in urine - Levels 1 and 2 (1-Hydroxypyrene, 1,2-Cyclohexanediol, Hippuric Acid, Mandelic Acid, Phenylglyoxylic Acid, S-phenylmercapturic Acid, t,t-Muconic Acid, Total Methylhippuric Acids, Trichloroacetic Acid)	2 x 5 x 10 ml						
SCP8944		VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc						
ZRE13623		RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc						
S51834475		Glass vials 10 ml for headspace (need the crimper)	1 x 100 Pcs						
S80100165		Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	1 x 100 Pcs						
S50404669		New Easy Grip Manual Crimper for 20 mm	1 Pc						
		 <table><tr><th colspan="2">Urine calibrator</th></tr><tr><th>RT (min)</th><th>Analyte</th></tr><tr><td>2.2</td><td>TCA</td></tr></table>	Urine calibrator		RT (min)	Analyte	2.2	TCA	
Urine calibrator									
RT (min)	Analyte								
2.2	TCA								

N°	Code	GC-GC/MS	Pcs
93	GC17510	INSIGHTS Carbon Tetrachloride (or Tetrachloromethane) (CCl ₄) also known as freon 10, is a synthetic compound used in laboratories, as a solvent in agriculture, as pesticide and in industries as a chemical intermediate in the production of fluorocarbons and for metal cleaning. At room temperature it is a non-polar liquid, volatile and very toxic because it's able to start radical chain reactions degrading cellular membranes.	1 x 100 tests
		Carbon Tetrachloride in urine by detector MS-head space	
		Liquid Calibrator for Carbon Tetrachloride in urine	
		VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		Glass vials 10 ml for headspace (need the crimper)	
		Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	
		New Easy Grip Manual Crimper for 20 mm	
		New Easy Grip Manual Decapper for 20 mm crimper top vials	
94	GC18010	INSIGHTS Dichloromethane (or methylene chloride) is a chemical compound belonging to the family of alkyl halides. Due to its volatility it is easily absorbed through the lungs; absorption through the skin is not significant. Circa 40% of Dichloromethane is metabolized; the rest is expelled unmodified through exhaling and partially through urine. Its volatility and ability to dissolve many organic compounds makes Dichloromethane an ideal solvent for many chemical processes. It is largely used to remove lipids and paints. It has been classified as potentially carcinogenic.	1 x 100 tests
		Methylene Chloride (Dichloromethane) in urine by detector MS-head space	
		Liquid Calibrator for Methylene Chloride in urine	
		VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		Glass vials 10 ml for headspace (need the crimper)	
		Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	
		New Easy Grip Manual Crimper for 20 mm	
		New Easy Grip Manual Decapper for 20 mm crimper top vials	
95	GC74010	INSIGHTS Methanol is used in the production of cellulose, synthetic resins, formaldehyde, acetic acid and fuel. Methanol is distributed uniformly in tissues and blood; it is metabolized in the liver and excreted in urine as Formaldehyde, Formic Acid and CO ₂ . The major toxicity of methanol is not due to the molecule but to metabolite, Formic Acid. Alcohol dehydrogenase is the first metabolic pathway that oxidizes Methanol into Formaldehyde. The subsequent oxidation of Formaldehyde to Formic Acid takes place through aldehyde dehydrogenase, an extremely fast reaction. After 6-18 hours from the time of exposure visual disturbances (pupillar oedema) and metabolic acidosis are observed: they are caused mainly by Formic Acid which is also the main cause of optic neuritis. The dosage of methanol is only useful if it's done early, while the determination of formates is more useful and can be used as an index of the intoxication's severity.	1 x 100 tests
		Formic Acid in urine by detector MS-head space	
		Liquid Calibrator for Formic Acid in urine	
		VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		Glass vials 10 ml for headspace (need the crimper)	
		Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	
		New Easy Grip Manual Crimper for 20 mm	
		New Easy Grip Manual Decapper for 20 mm crimper top vials	
		Syringe of 100 µl for liquid and gas injection, 1710 N with interchangeable pypston	1 Pc

N°	Code	GC-GC/MS	Pcs
	NEW	<p>INSIGHTS</p> <p>Volatile organic compound (VOC) are organic chemicals that have a high vapor pressure at room temperature. Some VOCs are dangerous to human health or cause harm to the environment. For instance, MEK and Methylisobutyl ketone (or MIBK) are also described in literature as a possible cause of optical neuritis. Acetone is a product that is part of physiological biochemistry. Some triggering conditions for acetonuria are fatigue, physical stress, high fever, fasting, prolonged physical exertion or the intake of too much fatty food. Methanol is used in the production of cellulose, synthetic resins, formaldehyde, acetic acid and fuels. In the occupational field the most important route of exposure is the respiratory one. Ethanol, after ingestion, is rapidly absorbed by the stomach and small intestine and is distributed throughout the body water. Isopropyl alcohol poisoning can occur by ingestion, inhalation or absorption by the skin. Symptoms of isopropyl alcohol poisoning include: hot flashes, headache, dizziness, central nervous system depression. Benzene is a highly flammable volatile liquid. Inhalation of a very high level of benzene can lead to death. Toluene is a volatile, colourless liquid used as solvent. It is classified as harmful and highly flammable; however, it is less toxic than benzene. Xylene refers to the mixture orthoxylene, meta-xylene and para-xylene. People's exposure to very high levels of xylene for short term depression. Benzene is a highly flammable volatile liquid. Inhalation of a very high level of benzene can lead to death. Toluene is a volatile, colourless liquid used as solvent. It is classified as harmful and highly flammable; however, it is less toxic than benzene. Xylene refers to the mixture orthoxylene, meta-xylene and para-xylene. People's exposure to very high levels of xylene for short periods result in irritation of the skin, eyes and respiratory tract, liver and kidney damage, etc. Dichloromethane might cause carcinogen, CNS depression, eye and skin irritation. Exposure to high concentrations of styrene causes transient irritation of the conjunctival and nasal mucous membranes and frequently headache.</p>	
96	GC77010	<p>Volatile Organic Compounds (VOC) in Urine by GC/MS headspace (Acetone, Benzene, Dichloromethane, Ethanol, Isopropanol, MEK: Methyl-Ethyl Keton, Methanol, MIBK: Methyl-Isobutyl-Keton, o,m,p-Xylene, Styrene, Toluene)</p>	1 x 100 tests
	GC77016	<p>Calibrator for VOC in urine (Acetone, Benzene Isopropanol, Dichloromethane, Ethanol, MEK, Methanol, MIBK, o,m,p-Xylene, Styrene, Toluene)</p>	7 x 2 x 10 ml
	GC77019	<p>Control for VOC in urine (Acetone, Benzene Isopropanol, Dichloromethane, Ethanol, MEK, Methanol, MIBK, o,m,p-Xylene, Styrene, Toluene)</p>	2 x 10 x 10 ml
	S1221364	J&W 122-1364 DB-624 Analytical column ~ 1000 injections (60 x 0,25mm –1,4 µm)	1 Pc
	STH99993188	Headspace clear vials of 20 ml + caps	1 x 100 Pcs
	S50404669	New Easy Grip Manual Crimper for 20 mm	1 Pc
	S50404671	New Easy Grip Manual Decapper for 20 mm crimper top vials	1 Pc



FORENSIC TOXICOLOGY

N°	Code	GC-GC/MS	Pcs
DRUGS OF ABUSE IN URINE			
97	GC43010	INSIGHTS Synthetic psychoactive drugs acting on the Central Nervous System. Similar to Adrenaline (natural hormone produced by the organism in cases of stress, tension, physical stress or strong emotions). Amphetamines are found in pill form or capsules, granulated, gel or crystals. They are present in some pharmaceuticals used to reduce appetite or in antidepressants. Also used to lace Ecstasy, Cocaine or LSD.	1 x 50 tests
		Amphetamines in urine by detector MS • CONFIRMATION KIT (Extractive Method) (3,4-MDA, 3,4-MDE, 3,4-MDMA, Amphetamine, MBDB, Metamphetamine) <i>An Evaporation System is necessary!</i>	
		Calibrator for Amphetamines in urine (3,4-MDA, 3,4-MDE, 3,4-MDMA, Amphetamine, Ephedrine, Ketamine, MBDB, Metamphetamine, Norpseudoephedrine, Pseudoephedrine)	
		GC43030 Internal Standard for Amphetamines	
		GC43040 Derivatization Solution 1 for Amphetamines	
		GC43050 Derivatization Solution 2 for Amphetamines	
		CC43019 Multiparametric Control for Drugs of Abuse in urine - Levels 1 and 2 (3,4-MDA, 3,4-MDE, 3,4-MDMA, Amphetamine, Benzoylcegonine, Cocaethylene MBDB, Ephedrine, Ketamine, MBDB, Metamphetamine, Norpseudoephedrine, Pseudoephedrine)	
		SCP8944 VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		ZRE13623 RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	
98	GC44010	INSIGHTS Buprenorphine is an analgesic with a long-time action, 25 to 40 times more potent than morphine. It is used in many cases as a drug replacement therapy in the detoxification of heroin addicts with doses ranging from 0.2 to 2 mg. Since 1996, a high number of deaths have been observed as a result of taking buprenorphine, often associated with other psychotropic drugs. Buprenorphine is metabolized through N-dealkylation to norbuprenorphine, which is glucuronidated and excreted in urine. Determinative screening in biological fluids (especially urine) is usually performed using immunometric techniques using monoclonal antibodies and subsequent staining with various reagents. Because these techniques can not rule out false positives, the positive screening must be confirmed by alternative technology. This is usually done with gas chromatography (GC) or liquid chromatography (LC) coupled with both specific and selective detector (UV, Fluorescent, MS).	1 x 50 tests
		Norbuprenorphine and Buprenorphine in urine by detector MS • CONFIRMATION KIT (Extractive Method) <i>An Evaporation System is necessary!</i>	
		CC44016 Calibrator for Norbuprenorphine and Buprenorphine in urine	
		GC45030 Internal Standard for Opiates	
		GC45040 Derivatization Solution for Opiates	
		CC44019 Control for Norbuprenorphine and Buprenorphine in urine - Levels 1 and 2	
		SCP8944 VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		ZRE13623 RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	
		S24717 Glass insert for vials of 2 ml	
		ZRE24533 Syringe of 50 µl 705 N Syr (22S/51/2)	
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	

N°	Code	GC-GC/MS	Pcs
99	GC45010	<p>INSIGHTS</p> <p>Heroin (Diacetylmorphine) is a semisynthetic substance of abuse obtained from Morphine, one of the principal opioid alkaloids, by reaction with acetic anhydride. Inside the organism, Heroin is rapidly hydrolyzed into 6-Monoacetylmorphine and then Morphine. The latter is then conjugated with Glucuronic Acid in positions 3 and 6, forming morphine-3-glucuronide and morphine-6-glucuronide. The last two are expelled in urine together with a small quantity of free Morphine. In opium, it is also possible to find small quantities of Codeine, and Acetylcodeine, obtained by acetylation of Codeine during the preparation of Heroin. The methods of 1° screening for the determination of opiates, through a reaction antigen-antibody, require a confirmatory analysis by chromatographic technique. This method by GC-MS allows to determine the total urinary morphine (after hydrolysis of the glucuronides), codeine, 6-monoacetylmorphine. Moreover, it also determines dihydrocodeine and ethylmorphine which are components of some pharmaceutical preparations. This is a remarkable feature because it allows to differentiate them from the other molecules contained in opium.</p> <p>Opiates in urine by detector MS</p> <p>• CONFIRMATION KIT • (Extractive Method) (Codeine, Dihydrocodeine, Ethylmorphine, 6-Monoacetylmorphine, Morphine) <i>An Evaporation System is necessary!</i></p>	1 x 50 tests
	CC45016	Calibrator for Opiates in urine (Codeine, Dihydrocodeine, Ethylmorphine, Morphine)	5 x 2 x 5 ml
	CC45116	Calibrator for 6-Monoacetylmorphine in urine	5 x 2 x 5 ml
	GC45030	Internal Standard for Opiates	1 x 1 ml
	GC45040	Derivatization Solution for Opiates	3 x 1 ml
	CC45019	Control for Opiates in urine - Levels 1 and 2 (Codeine, Dihydrocodeine, Ethylmorphine, Morphine)	2 x 6 x 5 ml
	CC48019	Control for EDDP, 6-Monoacetylmorphine and cocaine in urine - Levels 1 and 2	2 x 6 x 5 ml
	SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
	S24717	Glass insert for vials of 2 ml	1 x 100 Pcs
	ZRE24533	Syringe of 50 µl 705 N Syr (22S/51/2)	1 Pc
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
100	GC46010	<p>INSIGHTS</p> <p>Cocaine, psycho-stimulating substance, is an alkaloid contained in coca leaves, produced by extraction with calcium hydroxide or ammonia. In the organism Cocaine is rapidly hydrolyzed to Benzoylecgonine. This metabolite is expelled in urine and its determination is proof of cocaine consumption. It is also possible to find the metabolite Cocaethylene in individuals abusing Cocaine or Alcohol.</p> <p>Benzoylecgonine-Cocaethylene-Cocaine in urine by detector MS</p> <p>• CONFIRMATION KIT (Extractive Method) <i>An Evaporation System is necessary!</i></p>	1 x 50 tests
	CC46016	Calibrator for Benzoylecgonine and Cocaethylene in urine	5 x 2 x 5 ml
	CC46116	Calibrator for Cocaine in urine	5 x 2 x 5 ml
	GC46030	Internal Standard for Benzoylecgonine	1 x 1 ml
	GC46040	Derivatization Solution for Benzoylecgonine	3 x 1 ml
	CC43019	Multiparametric Control for Drugs of Abuse in urine - Levels 1 and 2 (3,4-MDA, 3,4-MDE, 3,4-MDMA, Amphetamine, Benzoylecgonine, Cocaethylene MBDB, Ephedrine, Ketamine, MBDB, Metamphetamine, Norpseudoephedrine, Pseudoephedrine)	2 x 6 x 5 ml
	CC48019	Control for EDDP, 6-Monoacetylmorphine and cocaine in urine - Levels 1 and 2	2 x 6 x 5 ml
	SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
	S24717	Glass insert for vials of 2 ml	1 x 100 Pcs
	ZRE24533	Syringe of 50 µl 705 N Syr (22S/51/2)	1 Pc
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

N°	Code	GC-GC/MS	Pcs	
101	GC48010	<div>INSIGHTS</div> <div>Methadone is a synthetic opioid used as a drug of choice in the detoxification of heroin (and / or opiates). Methadone is metabolized in the body as 2-ethylidene-1,5-dimethyl-3,3- diphenylpyrrolidine (EDDP), metabolite that is found along with the parent drug in urine. Due to the presence of some substances that interfere with the antigen-antibody reaction, methods of 1° screening can give false positive results. Therefore, a confirmation analysis by chromatographic techniques is required. The following method is used to determine Methadone and EDDP, after solid phase extraction, by using gas chromatography - mass spectrometry.</div> <div>Methadone and EDDP in urine by detector MS</div> <div>• CONFIRMATION KIT (Extractive Method)</div> <div>An Evaporation System is necessary!</div>	1 x 50 tests	
		CC48016	Calibrator for Methadone in urine	5 x 2 x 5 ml
		CC48116	Calibrator for EDDP in urine	5 x 2 x 5 ml
		GC45030	Internal Standard for Opiates	1 x 1 ml
		GC45040	Derivatization Solution for Opiates	3 x 1 ml
		CC43019	Multiparametric Control for Drugs of Abuse in urine - Levels 1 and 2 (3,4-MDA, 3,4-MDE, 3,4-MDMA, Amphetamine, Benzoyllecgonine, Cocaethylene MBDB, Ephedrine, Ketamine, MBDB, Metamphetamine, Norpseudoephedrine, Pseudoephedrine)	2 x 6 x 5 ml
		CC48019	Control for EDDP, 6-MonoacetylMorphine and cocaine in urine - Levels 1 and 2	2 x 6 x 5 ml
		SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
		S24717	Glass insert for vials of 2 ml	1 x 100 Pcs
ZRE24533	Syringe of 50 µl 705 N Syr (22S/51/2)	1 Pc		
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs		
102	GC47010	<div>INSIGHTS</div> <div>Delta-9-TetraCannabinol (commonly called THC, Delta-9-THC or Tetrahydrocannabinol) is one of the main and best known active principles of cannabis. It is a psychotropic substance produced by cannabis flowers, it can be ingested and most commonly smoked. It has pain-killing properties (sometimes used as treatment for pain), causes euphoria, anti-nausea, antiemetic, can stimulate appetites and reduce intraocular pressure and aggressiveness.</div> <div>Delta 9-tetrahydrocannabinol-COOH in urine by detector MS</div> <div>• CONFIRMATION KIT (Extractive Method)</div> <div>An Evaporation System is necessary!</div>	1 x 50 tests	
		CC47016	Control for Delta-9-THC-COOH in urine	5 x 2 x 10 ml
		GC47030	Internal Standard for THC	1 x 200 ul
		GC47040	Derivatization Solution for THC	3 x 1 ml
		CC47019	Control for Delta-9-THC-COOH in urine - Levels 1 and 2	2 x 6 x 10 ml
		SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
		S24717	Glass insert for vials of 2 ml	1 x 100 Pcs
		ZRE24533	Syringe of 50 µl 705 N Syr (22S/51/2)	1 Pc
		Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

N°	Code	GC-GC/MS	Pcs
DRUGS OF ABUSE IN HAIR			
103	GC49010	<p>INSIGHTS</p> <p>Once embedded in the hair, by the systemic circulation and by the contribution of sweat and sebum, substances of abuse remain impounded in the keratinous array in a stable way over time as a function of their lipophilic, molecular weight, the pKa and the steric encumbrance. The analysis of substances of abuse in keratinous array is an ideal addendum to the analysis of blood or urine as it provides information regarding an earlier time than that covered by other biological matrices and refers to a longer time period (one or more months) as a function of the length of the hair. The search for substances of abuse in hair can be used to test use, abuse and misuse over time to determine intensity and its history and then provide analytical data with medico-legal value. Determination in hair may be required in the following cases: deaths related to the use of substances of abuse, assessment of ineligibility for driving, criminal liability, reliance custody of infants, prenatal exposure to substances of abuse and finally as confirmation of sporadic consumption or a dependency in workers.</p> <p>Drugs of Abuse in hair by GC/MS</p> <p>• CONFIRMATION KIT (Extractive Method)</p> <p>(3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, Ecgonine Methyl, Ester, EDDP, MBDB, Metamphetamine, Methadone, Morphine)</p> <p>An Evaporation System is necessary!</p>	1 x 50 tests
		Calibrator for Drugs of Abuse in hair (3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, Ecgonine Methyl, Ester, EDDP, MBDB, Metamphetamine, Methadone, Morphine)	1 x 2000 mg/ 1 x 3 x 0,3 ml / 1 x 20 ml
		Control for Drugs of Abuse in hair (3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, Ecgonine Methyl, Ester, EDDP, MBDB, Metamphetamine, Methadone, Morphine)	1 x 2000 mg/ 1 x 3 x 0,5 ml / 1 x 30 ml
		SCP8944 VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		ZRE13623 RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
		S24717 Glass insert for vials of 2 ml	1 x 100 Pcs
		ZRE24533 Syringe of 50 µl 705 N Syr (22S/51/2)	1 Pc
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
104	GC53010	<p>INSIGHTS</p> <p>Delta-9-TetraCannabinol (commonly called THC, Delta-9-THC or Tetrahydrocannabinol) is one of the main and best known active principles of cannabis. It is a psychotropic substance produced by cannabis flowers, it can be ingested and most commonly smoked. It has pain-killing properties (sometimes used as treatment for pain), causes euphoria, anti-nausea, antiemetic, can stimulate appetites and reduce intraocular pressure and aggressiveness.</p> <p>Delta-9-THC in hair by GC/MS</p> <p>• CONFIRMATION KIT (Extractive Method)</p> <p>An Evaporation System is necessary!</p>	1 x 50 tests
		GC53016 Calibrator for Delta-9-THC in hair	1 x 2000 mg/ 1 x 0,3 ml/ 1 x 10 ml
		GC53019 Control for Delta-9-THC in hair	1 x 2000 mg/ 1 x 0,5 ml/ 1 x 10 ml
		SCP8944 VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		ZRE13623 RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
		S24717 Glass insert for vials of 2 ml	1 x 100 Pcs
		ZRE24533 Syringe of 50 µl 705 N Syr (22S/51/2)	1 Pc
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

N°	Code	GC-GC/MS	Pcs
106	NEW GC89110	INSIGHTS Amphetamines are synthetic psychoactive drugs acting on the Central Nervous System. Similar to Adrenaline (natural hormone produced by the organism in case of stress, tension, physical stress or strong emotions). Amphetamines are found in pill form or capsules, granulated, gel or crystals. They are present in some pharmaceuticals used to reduce appetite or in antidepressants. They are also used to lace Ecstasy, Cocaine or LSD. Amphetamines in whole blood by GC/MS CONFIRMATION KIT · (Extractive Method) (3,4-MDA, 3,4-MDE, 3,4-MDMA, Amphetamine, MBDB, Metamphetamine) An Evaporation System plus an ultrasonic bath are necessary!	1 x 50 tests
		LC89016 Calibrator for Drugs of Abuse in whole blood (11-OH-THC, 3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoylecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC, delta-9-THC-COOH, Ecgonine Methyl Estere, EDDP, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)	7 x 2 x 1 ml
		LC89019 Control for Drugs of Abuse in whole blood - Levels 1, 2 and 3 (11-OH-THC, 3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoylecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC, delta-9-THC-COOH, Ecgonine Methyl Estere, EDDP, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)	3 x 5 x 1 ml
		GC89130 Deuterated Internal Standard Mix Solution in whole blood (MDA-D5, MDE-D5, MDMA-D5, Amphetamine-D11, Metamphetamine-D11)	1 x 750 ul
		SCP8944 VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		ZRE13623 RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
		S24717 Glass insert for vials of 2 ml	1 x 100 Pcs
		ZRE24533 Syringe of 50 µl 705 N Syr (225/51/2)	1 Pc
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs
107	GC90010	INSIGHTS Delta-9-TetraCannabinol (commonly called THC, Delta-9-THC or Tetrahydrocannabinol) is one of the main and best known active principles of cannabis. It is a psychotropic substance produced by cannabis flowers, it can be ingested and most commonly smoked. It has pain-killing properties (sometimes used as treatment for pain), causes euphoria, anti-nausea, antiemetic, can stimulate appetites and reduce intraocular pressure and aggressiveness. Cannabinoids in whole blood by GC/MS · CONFIRMATION KIT · (delta-9-THC, delta-9-THC-COOH, 11-OH-THC) An Evaporation System is necessary!	1 x 50 tests
		LC89016 Calibrator for Drugs of Abuse in whole blood (11-OH-THC, 3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoylecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC, delta-9-THC-COOH, Ecgonine Methyl Estere, EDDP, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)	7 x 2 x 1 ml
		LC89019 Control for Drugs of Abuse in whole blood - Levels 1, 2 and 3 (11-OH-THC, 3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoylecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC, delta-9-THC-COOH, Ecgonine Methyl Estere, EDDP, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)	3 x 5 x 1 ml
		GC90030 Deuterated Internal Standard Mix Solution in whole blood (OH-THC-D3, THC-COOH-D9, THC-D3)	1 x 750 ul
		SCP8944 VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		ZRE13623 RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
		S24717 Glass insert for vials of 2 ml	1 x 100 Pcs
		ZRE24533 Syringe of 50 µl 705 N Syr (225/51/2)	1 Pc
		Z1636/26 10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

N°	Code	GC-GC/MS	Pcs
108	GC73010	<p>INSIGHTS</p> <p>Ethyl alcohol is an aliphatic alcohol PM=46,07. Usually, it is quickly absorbed through the stomach, small intestine and colon. The time necessary to complete the process of absorption is from 2 to 6 hours and varies as a result of different factors such as the presence of food and other liquids. It has been demonstrated that the maximum concentration is achieved approximately 20 minutes from consumption in blood, saliva and expired air, while in urine the maximum concentration is achieved after approximately two hours. The excessive consumption of alcohol provokes, in the short term, clinical situations of varied gravity that could require medical intervention, both for the direct effects of drunkenness and for indirect ones (eg. car accidents). The doctor could apply to the Laboratory for different reasons such as :</p> <ul style="list-style-type: none"> - to assess a possible cause of coma, in patient without cranial trauma; - to assess the cause of coma in patient with trauma cranial (eg. as a result of a car accident); - to diagnose drunkenness in patient with doubtful symptomatology. <p>Small doses of ethanol generally produce euphoria and relaxation; people experiencing these symptoms tend to become talkative and less inhibited, and may exhibit poor judgment. At higher doses ethanol acts as a central nervous system depressant. It also impairs sensory and motor function, cognition. It causes unconsciousness, and possible death.</p> <p>Ethanol in whole blood by detector FID and MS-headspace</p> <p>• CONFIRMATION KIT •</p>	1 x 100 tests
	GC73016	Calibrator for Ethanol in Whole Blood	6 x 1 ml/ 1 x 3 x 2 ml
	GC73019	Control for Ethanol in Whole Blood - Levels 1 and 2	4 x 1 ml/ 1 x 2 x 2 ml
	SCP8944	VF-5ms Column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	ZRE13623	RxiSil-5ms capillary column ~ 1000 injections (30 m x 0,25 mm ID, DF= 0,25 µm)	1 Pc
	S51834475	Glass vials 10 ml for headspace (need the crimper) / 100 pcs	1 x 100 Pcs
	S80100165	Magnetic caps with teflon and sylicon septa for headspace vials (need the crimper)	1 x 100 Pcs
	S50404669	New Easy Grip Manual Crimper for 20 mm	1 Pc
	S50404671	New Easy Grip Manual Decapper for 20 mm crimper top vials	1 Pc
	ZRE24563	Syringe of 100 µl for liquid and gas injection, 1710 N with interchangeable pyston	1 Pc
	ZRE24533	Syringe of 50 µl 705 N Syr (22S/51/2)	1 Pc



LC/MS



SPECIAL CLINICAL CHEMISTRY

N°	Code	LC-MS/MS	Pcs
TUMOR MARKERS			

INSIGHTS

Catecholamines are dihydroxyl organic compounds characterized by a phenolic ring. Epinephrine (E), Norepinephrine (NE), and Dopamine are the most important members of this family. The biosynthetic pathway of catecholamines uses L-tyrosine as initial substratum. Catecholamines are often determined in urine for neurological diagnosis and for monitoring the response to therapy in illnesses like pheochromocytoma and neuroblastoma. Pheochromocytoma is a catecholamine-producing tumor derived from adrenomedullary chromaffin cells. They are dangerous because of their capacity to store and release catecholamines in large amounts with subsequent production of alarming syndromes including sustained hypertension, etc. The blood test is more useful when the patient is affected by persistent hypertension or such episodes; this is because the hormones do not remain in the circulatory system long enough, but they are utilized, metabolized and expelled. The exam on the urinary matrix measures the quantity of catecholamines released in 24 hours. Since the hormonal concentrations vary over the day, the examination of the urine sample can determine an excessive production that would be overlooked on a plasmatic matrix. Neuroblastoma, the second most common solid tumor that occurs during childhood, may appear almost anywhere along the sympathetic nervous system chain. This tumor synthesizes and secretes catecholamines and metabolites like DOPA, dopamine, VMA, and homovanillic acid.

109	LC77010	Catecholamines/Metanephrines in urine by LC/MS (Extractive Method) (3-Methoxytyramine, Dopamine, Epinephrine, Metanephrine, Norepinephrine, Normetanephrine)	1 x 100 tests
	SK77010	Starter kit for Catecholamines/Metanephrines in urine by LC/MS	11 x 1 ml
	LC77011	Catecholamines/Metanephrines in urine by LC/MS - Mobile Phase M1	4 x 500 ml
	LC77021	Catecholamines/Metanephrines in urine by LC/MS - Mobile Phase M2	4 x 500 ml
	LC77016	Calibrator for Biogenic Amines in urine (3-Methoxytyramine, 5-hydroxyindolacetic acid, Dopamine, Epinephrine, Homovanillic Acid, Metanephrine, Norepinephrine, Normetanephrine, Vanilmandelic acid)	6 x 2 x 1 ml
	LC77019	Control for Biogenic Amines in urine - Levels 1, 2 and 3 (3-Methoxytyramine, 5-hydroxyindolacetic acid, Dopamine, Epinephrine, Homovanillic Acid, Metanephrine, Norepinephrine, Normetanephrine, Vanilmandelic acid)	3 x 5 x 1 ml
	LC77030	Deuterated Internal Standard Mix Solution in urine (Dopamine-D4, Epinephrine-D6, Metanephrine-D3, Norepinephrine-D6, Normetanephrine-D3)	1 x 800 µl
	S186004801	ACQUITY UPLC BEH AMIDE Analytical column ~ 1000 injections (100 x 2,1 mm - 1,7 µm)	1 Pc
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
110	LC97010	Catecholamines/Metanephrines in plasma by LC/MS (Extractive Method) (3-Methoxytyramine, Dopamine, Epinephrine, Metanephrine, Norepinephrine, Normetanephrine) A Positive Pressure 96 Manifold System is necessary !	1 x 96 tests
	SK97010	Starter kit for Catecholamines/Metanephrines in plasma by LC/MS	11 x 1 ml
	LC97011	Catecholamines/Metanephrines in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
	LC97021	Catecholamines/Metanephrines in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
	LC97016	Calibrator for Biogenic Amines in plasma (3-Methoxytyramine, 5-hydroxyindolacetic acid, Dopamine, Epinephrine, Homovanillic Acid, Metanephrine, Norepinephrine, Normetanephrine, Vanilmandelic acid)	7 x 2 x 1 ml
	LC97019	Control for Biogenic Amines in plasma - Levels 1, 2 and 3 (3-Methoxytyramine, 5-hydroxyindolacetic acid, Dopamine, Epinephrine, Homovanillic Acid, Metanephrine, Norepinephrine, Normetanephrine, Vanilmandelic acid)	3 x 5 x 1 ml
	LC97030	Deuterated Internal Standard Mix Solution in plasma (Dopamine-D4, Epinephrine-D6, Metanephrine-D3, Norepinephrine-D6, Normetanephrine-D3)	1 x 1 ml
	S186004801	ACQUITY UPLC BEH AMIDE Analytical column ~ 1000 injections (100 x 2,1 mm - 1,7 µm)	1 Pc

N°	Code	LC-MS/MS	Pcs
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INSIGHTS

The dosage of urinary metanephrines represents a reliable test for the screening of pheochromocytoma. These substances derive from the metabolism of catecholamines, hormones produced and secreted by medullary of the adrenal glands, in order to prepare the organism for stressful events. Pheochromocytoma is a tumor that affects adrenal glands causing a hypersecretion of catecholamines; as a result, levels of Adrenaline and Noradrenaline increase, as well as their metabolites, called metanephrines. They form inside the tumor and are secreted inconsistently by the tumor.

111	LC97110	Free Metanephrines in Plasma by LC/MS (Extractive method) (Metanephrine Normetanephrine 3-Methoxytyramine) A Positive Pressure 96 Manifold System is necessary !	1 x 96 tests
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SK97110	Starter kit for Metanephrines in plasma by LC/MS	5 x 1 ml
LC97111	Free Metanephrines in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
LC97121	Free Metanephrines in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
LC97016	Calibrator for Biogenic Amines in plasma (3-Methoxytyramine, 5-hydroxyindolacetic acid, Dopamine, Epinephrine, Homovanillic Acid, Metanephrine, Norepinephrine, Normetanephrine, Vanilmandelic acid)	7 x 2 x 1 ml
LC97019	Control for Biogenic Amines in plasma - Levels 1, 2 and 3 (3-Methoxytyramine, 5-hydroxyindolacetic acid, Dopamine, Epinephrine, Homovanillic Acid, Metanephrine, Norepinephrine, Normetanephrine, Vanilmandelic acid)	3 x 5 x 1 ml
LC97130	Deuterated Internal Standard Mix Solution in plasma (Metanephrine-D3, Normetanephrine-D3)	1 x 1 ml
S186004801	ACQUITY UPLC BEH AMIDE Analytical column ~ 1000 injections (100 x 2,1 mm - 1,7 µm)	1 Pc


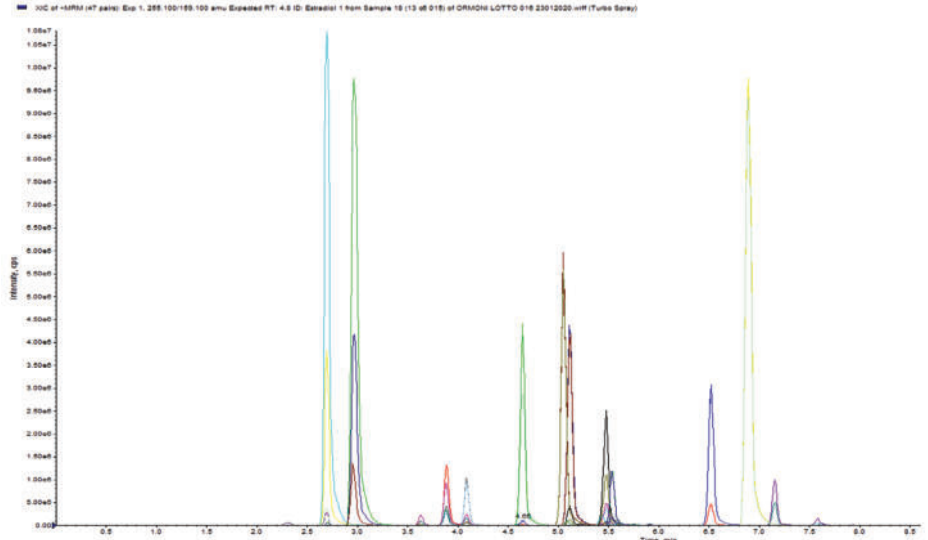
INSIGHTS

The catabolic process of monoamines is in part neuronal and happens in the mitochondria by the Monoamine oxidase (MAO) and, partly extra neuronal for catecholamines, by COMT. In particular: Homovanillic Acid (HVA) is the major metabolite of Dopamine while Vanillylmandelic Acid (VMA) is the main metabolite of norepinephrine and epinephrine.

- 5-hydroxyindolacetic acid (5-HIAA) is the principal final product of serotonin metabolism. The determination of its concentration in urine is utilized for the diagnosis of a neuroendocrine tumor.

112	LC14610	Free VMA/5-HIAA/HVA in urine by LC/MS (5-hydroxyindolacetic acid, Homovanillic Acid, Vanilmandelic acid)	1 x 100 tests
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SK14610	Starter Kit for VMA/5-HIAA/HVA in urine by LC/MS	6 x 1 ml
LC14611	Free VMA/5-HIAA/HVA in urine by LC/MS - Mobile Phase M1	4 x 500 ml
LC14621	Free VMA/5-HIAA/HVA in urine by LC/MS - Mobile Phase M2	4 x 500 ml
LC77016	Calibrator for Biogenic Amines in urine (3-Methoxytyramine, 5-hydroxyindolacetic acid, Dopamine, Epinephrine, Homovanillic Acid, Metanephrine, Norepinephrine, Normetanephrine, Vanilmandelic acid)	6 x 2 x 1 ml
LC77019	Control for Biogenic Amines in urine - Levels 1, 2 and 3 (3-Methoxytyramine, 5-hydroxyindolacetic acid, Dopamine, Epinephrine, Homovanillic Acid, Metanephrine, Norepinephrine, Normetanephrine, Vanilmandelic acid)	3 x 5 x 1 ml
LC14630	Deuterated Internal Standard Mix Solution in urine (5-HIAA 13C6, HVA-D5, VMA-D3)	1 x 2 ml
Z959757902	Zorbax RRHD C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm)	1 Pc
S29057U	Standard glass vials of 2 ml with screw caps for Autosampler	1 x 100 Pcs
S24717	Glass insert for vials of 2 ml	1 x 100 Pcs

N°	Code	LC-MS/MS	Pcs
MARKERS FOR ADRENAL INSUFFICIENCY AND OTHER DISEASES			
INSIGHTS			
Hormones are molecules which are secreted by endocrine cells. They serve to maintain homeostasis, to regulate reproduction, development and other processes. Upon secretion from the glands of the endocrine system, hormones are released into the bloodstream so that they can reach the cells to target far from the site of production. Their chemical structure, which is polycyclic, derives from cholesterol.			
113	LC72310	Steroid Hormones in serum and plasma by LC/MS	1 x 100 tests
114	LC72315	Steroid Hormones in serum and plasma by LC/MS 11-Deoxycorticosterone, 11-Deoxycortisol, 17- OH-Pregnenolone, 17-OH, Progesterone, 21-Deoxycortisol, Aldosterone, Androstenedione, Androsterone, Corticosterone, Cortisol, Cortisone, Dehydroepiandrosterone (DHEA), Dehydroepiandrosterone sulfate (DHEAS), Dihydrotestosterone, Estradiol, Estrone, Pregnenolone, Progesterone, Testosterone) An Evaporation System is necessary!	1 x 500 tests
			
SK72310	Starter kit for Steroid Hormones in serum and plasma by LC/MS		27 x 1 ml
LC72311	Steroid Hormones in serum and plasma by LC/MS - Mobile Phase M1		4 x 500 ml
LC72321	Steroid Hormones in serum and plasma by LC/MS - Mobile Phase M2		4 x 500 ml
LC72316	Calibrator for Steroid Hormones in plasma (11-Deoxycorticosterone, 11-Deoxycortisol, 17- OH-Pregnenolone, 17-OH, Progesterone, 21-Deoxycortisol, Aldosterone, Androstenedione, Androsterone, Corticosterone, Cortisol, Cortisone, Dehydroepiandrosterone (DHEA), Dehydroepiandrosterone sulfate (DHEAS), Dihydrotestosterone, Estradiol, Estrone, Pregnenolone, Progesterone, Testosterone)		7 x 2 x 1 ml
LC72319	Control for Steroid Hormones in plasma - Levels 1, 2 and 3 11-Deoxycorticosterone, 11-Deoxycortisol, 17- OH-Pregnenolone, 17-OH, Progesterone, 21-Deoxycortisol, Aldosterone, Androstenedione, Androsterone, Corticosterone, Cortisol, Cortisone, Dehydroepiandrosterone (DHEA), Dehydroepiandrosterone sulfate (DHEAS), Dihydrotestosterone, Estradiol, Estrone, Pregnenolone, Progesterone, Testosterone)		3 x 5 x 1 ml
LC72330	Deuterated Internal Standard Mix Solution in serum/plasma (17-OH-Progesterone- ¹³ C ₃ , Aldosterone-D ₇ , Cortisol-D ₄ , DHEA-D ₆ , DHEAS-D ₅ , Pregnenolone-D ₄ , Testosterone-D ₃ , β-Estradiol-D ₅)		2 x 500 ul
Z699675902	Poroshell 120-EC C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,9 μm)		1 Pc
L-30-210	Eppendorf Tubes by 1,5 ml with caps		1 x 1000 Pcs
S29057U	Standard glass vials of 2 ml with screw caps for Autosampler		1 x 100 Pcs
S24717	Glass insert for vials of 2 ml		1 x 100 Pcs
			
Calibrator in plasma for steroid hormones. According to an increasing retention time: Aldosterone, Cortisone, Cortisol, 21 Deoxycortisol, DHEAS, Corticosterone, 11-Deoxycortisol, β-estradiol, Estrone, Androstenedione, 11 Deoxycorticosterone, Testosterone, DHEA, 17-OH Progesterone, 17-OH Pregnenolone, Dihydrotestosterone, Progesterone, Androsterone, Pregnenolone.			

N°	Code	LC-MS/MS	Pcs
115	LC72410	Steroid Hormones in serum and plasma by LC/MS (Extractive Method)	1 x 100 tests
116	LC72415	Steroid Hormones in serum and plasma by LC/MS (Extractive Method) 11-Deoxycorticosterone, 11-Deoxycortisol, 17-OH-Pregnenolone, 17-OH, Progesterone, 21-Deoxycortisol, Aldosterone, Androstenedione, Androsterone, Corticosterone, Cortisol, Cortisone, Dehydroepiandrosterone (DHEA), Dehydroepiandrosterone sulfate (DHEAS), Dihydrotestosterone, Estradiol, Estrone, Pregnenolone, Progesterone, Testosterone) An Evaporation System is necessary!	1 x 500 tests
	SK72410	Starter kit for Steroid Hormones in serum and plasma by LC/MS	27 x 1 ml
	LC72411	Steroid Hormones in serum and plasma by LC/MS - Mobile Phase M1	4 x 500 ml
	LC72421	Steroid Hormones in serum and plasma by LC/MS - Mobile Phase M2	4 x 500 ml
	LC72316	Calibrator Steroid Hormones in plasma 11-Deoxycorticosterone, 11-Deoxycortisol, 17-OH-Pregnenolone, 17-OH, Progesterone, 21-Deoxycortisol, Aldosterone, Androstenedione, Androsterone, Corticosterone, Cortisol, Cortisone, Dehydroepiandrosterone (DHEA), Dehydroepiandrosterone sulfate (DHEAS), Dihydrotestosterone, Estradiol, Estrone, Pregnenolone, Progesterone, Testosterone)	7 x 2 x 1 ml
	LC72319	Control for Steroid Hormones in plasma - Levels 1, 2 and 3 11-Deoxycorticosterone, 11-Deoxycortisol, 17-OH-Pregnenolone, 17-OH, Progesterone, 21-Deoxycortisol, Aldosterone, Androstenedione, Androsterone, Corticosterone, Cortisol, Cortisone, Dehydroepiandrosterone (DHEA), Dehydroepiandrosterone sulfate (DHEAS), Dihydrotestosterone, Estradiol, Estrone, Pregnenolone, Progesterone, Testosterone)	3 x 5 x 1 ml
	LC72430	Deuterated Internal Standards Mix Solution in serum/plasma (17-OH-Progesterone-13C3, Aldosterone-D7, beta-Estradiol-D5, Cortisol-D4, DHEA-D6, DHEAS-D5, Pregnenolone-D4, Testosterone-D3)	2 x 1,1 ml
	Z699675902	Poroshell 120-EC C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,9 µm)	1 Pc
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S29057U	Standard glass vials of 2 ml with screw caps for Autosampler	1 x 100 Pcs
	S24717	Glass insert for vials of 2 ml	1 x 100 Pcs
	S7344223	Glass Test Tubes 13 x 100 mm	1 x 250 Pcs

INSIGHTS

Cortisol is a steroid hormone synthesized in the adrenal gland, starting from cholesterol, through an enzymatic cascade. It is the principal glucocorticoid in humans and it acts as a gene transcription factor influencing a variety of cellular responses in many tissues. Cortisol plays a key role in the metabolism of glucose, in the maintenance of vascular tone as well as regulates the immune response and the body's response to stress. Only a small percentage of circulating cortisol is biologically active, most cortisol is inactive (protein bound). When the plasma cortisol value rises, the free cortisol also increases, and is filtered by the glomerulus. The urinary free cortisol is well correlated with the concentration of serum free cortisol. The urinary free cortisol is biologically active, and is responsible for the signs and symptoms of hypercortisolism (Cushing's Syndrome). The measurement of free cortisol excretion over 24 hours associated with liquid mass spectrometry (LCMS/MS) is the preferred screening test for Cushing's syndrome. Cortisone, cortisol metabolite, is an additional parameter to help in the diagnosis of various adrenal disorders, including the abnormality in the activity of 11-beta-hydroxy-dehydrogenase (11-beta HSD), the enzyme that converts cortisol to cortisone. This method allows to determine simultaneously both the cortisol and Cortisone in 24-hour urine sample by LCMS/MS.

117	LC91010	Cortisol and Cortisone in urine by LC/MS	1 x 100 tests
118	LC91015	Cortisol and Cortisone in urine by LC/MS	1 x 500 tests
	SK91010	Starter Kit for Cortisol and Cortisone in urine by LC/MS	3 x 1 ml
	LC91011	Cortisol and Cortisone in urine by LC/MS - Mobile Phase M1	4 x 500 ml
	LC91021	Cortisol and Cortisone in urine by LC/MS - Mobile Phase M2	4 x 500 ml
	LC91016	Calibrator for Cortisol and Cortisone in urine by LC/MS	7 x 2 x 1 ml
	LC91019	Control for Cortisol/Cortisone in urine by LC/MS - Levels 1, 2 and 3	3 x 5 x 1 ml
	LC91030	Deuterated Internal Standard Solution in urine (Cortisol-D4)	1 x 100 µl
	Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm)	1 Pc
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	LC-MS/MS	Pcs
ANTIOXIDANT MOLECULES			

INSIGHTS

Homocysteine (HCY) is a sulfurated aminoacid that derives from the demethylation of Methionine. Homocysteine is considered an independent risk factor, because it is able to increase the incidence of cardiovascular diseases independently of the presence of other causing factors. It also increases the risk of other pathologies (venous thrombosis, pulmonary embolism) as well as fetal malformations, mental decay, Alzheimer and spontaneous fractures. Folates, B12 and B6 Vitamins intake can be successfully used in different forms of hyperhomocysteinemia. For this reason, an early diagnosis is fundamental to avoid the risk of cardiac and cerebrovascular thrombotic diseases.

119 **LC09010 Homocysteine in plasma by LC/MS** 1 x 100 tests

120 **LC09015 Homocysteine in plasma by LC/MS** 1 x 500 tests

SK09010	Starter kit for Homocysteine in plasma by LC/MS	2 x 1 ml
LC09011	Homocysteine in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
LC09021	Homocysteine in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
LC09016	Calibrator for Homocysteine in plasma by LC/MS	5 x 2 x 1 ml
LC09019	Control for Homocysteine in plasma by LC/MS - Levels 1 and 2	2 x 5 x 1 ml
LC09030	Deuterated Internal Standard Solution in plasma (Homocystine-D8)	1 x 2 ml
S58979	Supelcosil LC-CN Analytical column ~ 1000 injections (33 x 4,6 mm - 3 µm)	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

INSIGHTS

Vitamin D plays a fundamental role in the control of calcium and phosphide concentrations in the extracellular matrix and therefore in the bone mineralization processes and in maintaining skeletal integrity. It is also involved in preventing some pathological processes such as cardiovascular diseases, some tumor forms (colon, breasts), multiple sclerosis, type 1 diabetes and some infectious diseases (tuberculosis, seasonal flu). Hypovitaminosis D leads to osteoporosis and to a loss of muscle strength in aging as well.

121 **LC19110 25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma by LC/MS** 1 x 100 tests

122 **LC19115 25-OH Vitamin D3 and 25-OH Vitamin D2 in plasma by LC/MS** 1 x 500 tests

SK19110	Starter kit for 25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma by LC/MS	3 x 1 ml
LC19011	25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
LC19021	25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
LC19016	Calibrator for 25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma by LC/MS	7 x 2 x 1 ml
LC19019	Control for 25-OH-Vitamin D3 and 25-OH-Vitamin D2 in plasma by LC/MS - Levels 1, 2 and 3	3 x 5 x 1 ml
LC19130	Deuterated Internal Standard Solution in plasma (Calcifediol-D6)	1 x 200 µl
ZRE9309A52	RAPTOR Biphenyl Analytical column ~ 1000 injections (50 x 2,1 mm - 2,7 µm)	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs



THERAPEUTIC DRUG MONITORING

N°	Code	LC-MS/MS	Pcs
IMMUNOSUPPRESSANTS			



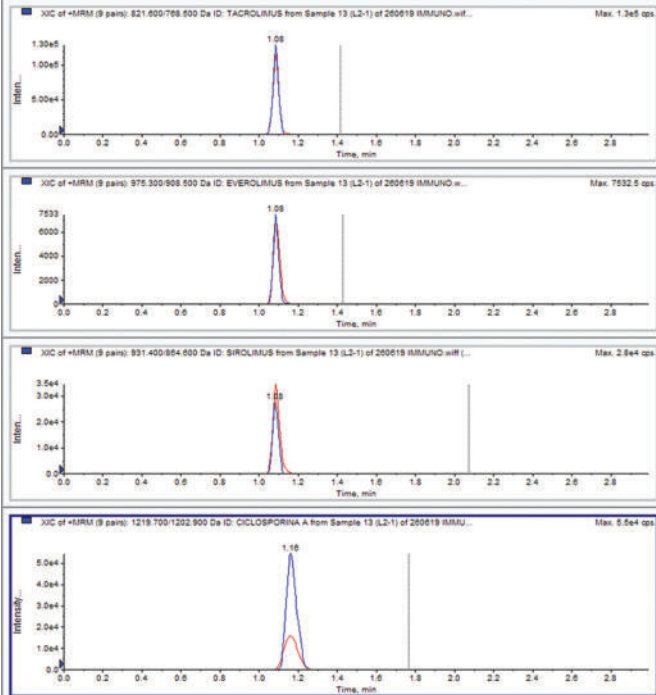
INSIGHTS

Immunosuppressive drugs are used to control of severe allergic reactions, autoimmune diseases and diseases related to transplantation. The main immunosuppressive drugs used are Cyclosporine A, Tacrolimus, Sirolimus and Everolimus. Therapeutic Drug Monitoring of these medications is essential because of the risk of toxic effects such as anemia, leukopenia and thrombocytopenia.

123 **LC75110** **Immunosuppressants in whole blood by LC/MS** 1 x 100 tests

124 **LC75115** **Immunosuppressants in whole blood by LC/MS** 1 x 500 tests
(Cyclosporine A, Everolimus, Sirolimus, Tacrolimus)

SK75110	Starter kit for Immunosuppressants in whole blood by LC/MS	8 x 1 ml
LC75111	Immunosuppressants in whole blood by LC/MS - Mobile Phase M1	4 x 500 ml
LC75121	Immunosuppressants in whole blood by LC/MS - Mobile Phase M2	4 x 500 ml
LC75016	Calibrator in whole blood for Immunosuppressants (Cyclosporine A, Everolimus, Sirolimus, Tacrolimus)	7 x 2 x 1 ml
LC75019	Control in whole blood for Immunosuppressants – Levels 1, 2 and 3 (Cyclosporine A, Everolimus, Sirolimus, Tacrolimus)	3 x 5 x 1 ml
LC75130	Deuterated Internal Standard Mix Solution in whole blood (Cyclosporine A-D4, Everolimus ¹³ C2-D4, Sirolimus ¹³ C-D3, Tacrolimus ¹³ C-D2)	1 x 400 µl
Z51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
Z51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
For UHPLC systems		
Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm)	1 Pc
For HPLC systems		
ZTF17126032130	ACCUCORE C 18 Analytical column ~ 1000 injections (30 x 2,1 mm - 2,6 µm)	1 Pc
Monodimensional		
TF25403012101	Hypersil GOLD PFP Guard Prefilters (10 x 2,1 mm - 3 µm)	1 x 4 Pcs
TF84200	2 mm DROP-IN HOLDER	1 Pc
Bidimensional		
RE917950210	Ultra PFPP 10 x 4,0 mm (SPE ON-LINE/Bidimensional Modality)	1 x 3 Pcs
RE25021	Holder per 10 mm Guard Trident Guard System	1 Pc

N°	Code	LC-MS/MS	Pcs
125	LC75310	Immunosuppressants Dual kit in whole blood/plasma by LC/MS	1 x 100 tests
126	LC75410	Immunosuppressants Dual kit in whole blood/plasma by LC/MS	1 x 200 tests
127	LC75315	Immunosuppressants Dual kit in whole blood/plasma by LC/MS (Cyclosporine A, Everolimus, Mycophenolic Acid, Sirolimus, Tacrolimus)	1 x 500 tests
	SK75310	Starter kit for Immunosuppressants in whole blood/plasma	10 x 1 ml
	LC75311	Immunosuppressants DUAL KIT in whole blood/plasma by LC/MS - Mobile Phase M1	4 x 500 ml
	LC75321	Immunosuppressants DUAL KIT in whole blood/plasma by LC/MS - Mobile Phase M2	4 x 500 ml
	LC75016	Calibrator in whole blood for Immunosuppressants (Cyclosporine A, Everolimus, Sirolimus, Tacrolimus)	7 x 2 x 1 ml
	LC75019	Control in whole blood for Immunosuppressants - Levels 1, 2 and 3 (Cyclosporine A, Everolimus, Sirolimus, Tacrolimus)	3 x 5 x 1 ml
	LC75316	Calibrator in plasma for Mycophenolic Acid	7 x 2 x 1 ml
	LC75319	Control in plasma for Mycophenolic Acid - Levels 1,2 and 3	3 x 5 x 1 ml
	LC75330	Deuterated Internal Standard Mix Solution in whole blood (Cyclosporine A-D4, Everolimus ¹³ C2-D4, Sirolimus ¹³ C-D3, Tacrolimus ¹³ C-D2)	1 x 400 ul
	LC75230	Deuterated Internal Standard Solution in plasma (Mycophenolic Acid-D3)	1 x 100 ul
	Z51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	Z51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
For UHPLC systems			
	Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm)	1 Pc
For HPLC systems			
	ZTF17126032130	ACCUCORE C 18 Analytical column ~ 1000 injections (30 x 2,1 mm - 2,6 µm)	1 Pc
Monodimensional			
	TF25403012101	Hypersil GOLD PFP Guard Prefilters (10 x 2,1 mm - 3 µm)	1 x 4 Pcs
	TF84200	2mm DROP-IN HOLDER	1 Pc
Bidimensional			
	ZRE917950210	Ultra PFPP 10 x 4,0 mm (SPE ON-LINE/Bidimensional Modality)	1 x 3 Pcs
	ZRE25021	Holder per 10 mm Guard Trident Guard System	1 Pc
	 <p>Calibrator in whole blood for immunosuppressants.</p> <p>A) Tacrolimus (RT 1.08 min) and its internal standard</p> <p>B) Everolimus (RT 1.08 min) and its internal standard</p> <p>C) Sirolimus (RT 1.08 min) and its internal standard</p> <p>D) Cyclosporine A (RT 1.16 min) and its internal standard.</p>		

N°	Code	LC-MS/MS	Pcs
ANTI-INFECTIVE DRUGS			

NEW

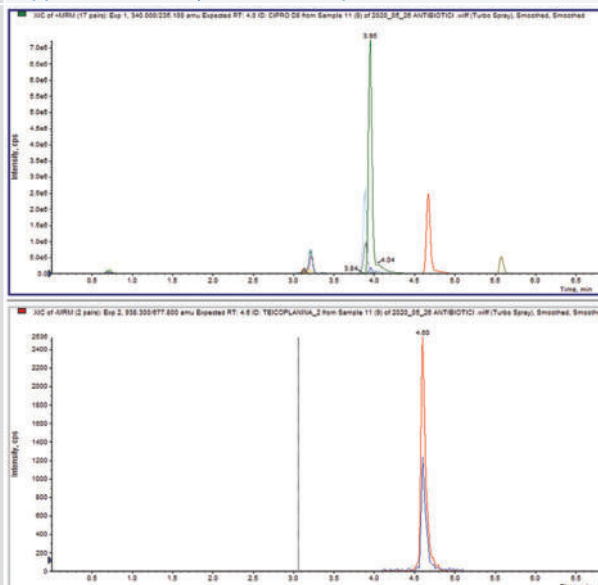
INSIGHTS

Technically, an "antibiotic" is a substance of natural origin produced by a microorganism, able to kill another. The term in common usage today means a drug, natural or synthetic (chemotherapy), which can slow or stop the proliferation of bacteria. Antibiotics are distinguished therefore in bacteriostatics (ie, inhibit reproduction of the bacteria, preventing the split) and bactericidals (ie directly kill the organism). Usually have no effect against viruses, fungi and parasites.

128	LC79210	Antibiotics in plasma by LC/MS	1 x 100 tests
129	LC79215	Antibiotics in plasma by LC/MS (Amikacin, Ceftazidime, Ciprofloxacin, Daptomycin, Gentamicin, Levofloxacin, Linezolid, Meropenem, Streptomycin, Teicoplanin, Vancomycin)	1 x 500 tests



SK79210	Starter kit for Antibiotics in plasma by LC/MS	16 x 1 ml
LC79211	Antibiotics in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
LC79221	Antibiotics in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
LC79016	Calibrator for Antibiotics in plasma (Amikacin, Ceftazidime, Ciprofloxacin, Daptomycin, Gentamicin, Levofloxacin, Linezolid, Meropenem, Streptomycin, Teicoplanin, Vancomycin)	7 x 2 x 1 ml
LC79019	Control for Antibiotics in plasma - Levels 1, 2 and 3 (Amikacin, Ceftazidime, Ciprofloxacin, Daptomycin, Gentamicin, Levofloxacin, Linezolid, Meropenem, Streptomycin, Teicoplanin, Vancomycin)	3 x 5 x 1 ml
LC79230	Deuterated and not Deuterated Internal Standard Mix Solution in plasma (Apramycin (not deuterated), Ciprofloxacin-D8, Daptomycin-D5, Levofloxacin-D8, Meropenem-D6)	1 x 30 ml
ZA2001100X020	Analytical column Polaris C18 ~ 1000 injections (100 x 2 mm, 3 um)	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs



Calibrators in plasma for antibiotics:

A) Positive acquisition of the molecules listed below, according to an increasing retention time: Gentamicin, Amikacin, Streptomycin, Linezolid, Levofloxacin, Ciprofloxacin, Vancomycin, Meropenem, Ceftazidime, Daptomycin

B) Negative acquisition of Teicoplanin

N°	Code	LC-MS/MS	Pcs
130	LC79110	INSIGHTS Ethambutol is active against mycobacteria resistant to other drugs commonly used to treat tuberculosis. Among the most common side effects, there are optic neuritis, peripheral neuritis, rash, thrombocytopenia, rash. Isoniazid is the main anti-tuberculosis antibiotic, acts by inhibiting the synthesis of mycolic acids, essential components of the cell wall of the bacterium <i>Mycobacterium tuberculosis</i> . The Rifampicin is a bactericidal antibiotic of the rifamycin group. It is a semi-synthetic compound derived from <i>Amycolaptosis rifamycinica</i> (formerly known as <i>Amycolaptosis Mediterranean</i> or <i>Streptomyces Mediterranean</i>).	1 x 100 tests
		Antituberculosis Drugs in plasma by LC/MS (Ethambutol, Isoniazid, Rifampicin)	
		SK79110 Starter kit for Antituberculosis Drugs in plasma by LC/MS	
		LC79111 Antituberculosis Drugs in plasma by LC/MS - Mobile Phase M1	
		LC79121 Antituberculosis Drugs in plasma by LC/MS - Mobile Phase M2	
		LC79116 Calibrator for Antituberculosis drugs in plasma	
		LC79119 Control for Antituberculosis drugs in plasma - Levels 1 and 2	
		ZTF2500305213 GOLD Analytical column ~ 1000 injections (50 x 2,1 mm - 3 µm) for HPLC	
		Z25002052130 Hypersil GOLD Analytical column ~ 1000 injections (50 x 2,1 mm - 1,9 µm) for UHPLC	
		S51843550 Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	
		S51820717 Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	
		L-30-210 Eppendorf Tubes by 1,5 ml with caps	

INSIGHTS

Systemic fungus infections are the main cause of death in patients where the immune system is compromised because of cancer or chemotherapy, organ transplants or HIV-1. Fungi commonly cause superficial infections of the skin or other soft tissues. A correct monitoring of plasmatic levels of antimycotics is necessary, in order to make sure the concentration is sufficient but not too toxic.

131	LC82010	Antimycotics in plasma by LC/MS (5-Flucytosine, Anidulafungin, Caspofungin, Fluconazole, Hydroxy, Itraconazole, Isavuconazole, Itraconazole, Ketoconazole, Miconazole, Posaconazole, Voriconazole)	1 x 100 tests
	SK82010	Starter Kit for Antimycotics in plasma by LC/MS	13 x 1 ml
	LC82011	Antimycotics in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
	LC82021	Antimycotics in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
	LC82031	Antimycotics in plasma by LC/MS - Mobile Phase M3 (only Miconazole)	4 x 500 ml
	LC82016	Calibrator for Antimycotics in plasma (5-Flucytosine, Anidulafungin, Caspofungin, Fluconazole, Hydroxy, Itraconazole, Isavuconazole, Itraconazole, Ketoconazole, Miconazole, Posaconazole, Voriconazole)	5 x 2 x 1 ml
	LC82019	Control for Antimycotics in plasma - Levels 1 and 2 (5-Flucytosine, Anidulafungin, Caspofungin, Fluconazole, Hydroxy, Itraconazole, Isavuconazole, Itraconazole, Ketoconazole, Miconazole, Posaconazole, Voriconazole)	2 x 5 x 1 ml
	LC82030	Deuterated and not Deuterated Internal Standard Mix Solution in plasma (Fenbuconazole (not deuterated), Isavuconazole-D4)	1 x 30 ml
	ZTF17126032130	ACCUCORE C18 Analytical column ~ 1000 injections (30 x 2,1 mm - 2,6 µm)	1 Pc
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

N°	Code	LC-MS/MS	Pcs
ANTIARRHYTHMICS			

INSIGHTS

Antiarrhythmic agents, also known as cardiac dysrhythmia medications, are a group of pharmaceuticals that are used to suppress abnormal rhythms of the heart (cardiac arrhythmias), such as atrial fibrillation, atrial flutter, ventricular tachycardia, and ventricular fibrillation. Many attempts have been made to classify antiarrhythmic agents. The problem arises from the fact that many of the antiarrhythmic agents have multiple modes of action, making any classification imprecise.

132 **LC99110** **Antiarrhythmics in serum and in plasma by LC/MS** 1 x 100 tests

133 **LC99115** **Antiarrhythmics in serum and in plasma by LC/MS** 1 x 500 tests
(Amiodarone, Desethylamiodarone, Flecainide, Propafenone, Sotalol, Quinidine)

SK99110	Starter kit for Antiarrhythmics in plasma by LC/MS	10 x 1 ml
LC99111	Antiarrhythmics in plasma by LC/MS Mobile Phase M1	4 x 500 ml
LC99121	Antiarrhythmics in plasma by LC/MS Mobile Phase M2	4 x 500 ml
LC99116	Calibrator in plasma for Antiarrhythmics (Amiodarone, Desethylamiodarone, Flecainide, Propafenone, Sotalol, Quinidine)	7 x 2 x 1 ml
LC99119	Control in plasma for Antiarrhythmics – Levels 1, 2 and 3 (Amiodarone, Desethylamiodarone, Flecainide, Propafenone, Sotalol, Quinidine)	3 x 5 x 1 ml
LC99130	Deuterated Internal Standard Mix Solution in plasma (Amiodarone-D4, Desethylamiodarone-D4, Flecainide-D3, Propafenone-D5)	1 x 5 ml
Z699675902	Poroshell 120 EC-C18 Analytical column ~ 1000 injections (50 x 2,1 mm, 1,9 µm)	1 Pc
S29057U	Standard Vial of 2 ml with screw cap	100 pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

ANTIEPILEPTICS

INSIGHTS

Treatment of an epileptic patient requires pharmacological and psychological contributions. In such a context the pharmacological therapy and the consequent monitoring have a decisive role in the immediate control of epileptic crisis and in the prevention in the medium/long run of recurrence. Thanks to the monitoring of plasmatic concentrations of antiepileptic pharmaceuticals, it is in some cases possible to personalize the treatment for a single patient.

134 **LC05010** **Antiepileptics in plasma by LC/MS** 1 x 100 tests

135 **LC05015** **Antiepileptics in plasma by LC/MS** 1 x 500 tests
(10,11-Dihydro-10-Hydroxycarbamazepine, Carbamazepine, Carbamazepine-epoxide, Desmethylsuximide, Ethosuximide, Lacosamide, Lamotrigine, Levetiracetam, Metosuximide, Oxcarbazepine, Perampanel, Phelbamate, Phenobarbital, Phenytoin, Primidone, Rufinamide, Topiramate, Valproic Acid, Zonisamide)

SK05010	Starter Kit for Antiepileptics in plasma by LC/MS	24 x 1 ml
LC05011	Antiepileptics in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
LC05021	Antiepileptics in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
LC04916	Calibrator for Antiepileptics in plasma (10,11-Dihydro-10-Hydroxycarbamazepine, Brivaracetam, Carbamazepine, Carbamazepine-epoxide, Desmethylsuximide, Ethosuximide, Gabapentin, Lacosamide, Lamotrigine, Levetiracetam, Metosuximide, Oxcarbazepine, Perampanel, Phelbamate, Phenobarbital, Phenytoin, Pregabalin, Primidone, Rufinamide, Stiripentol, Sultiamine, Tiagabine, Topiramate, Valproic Acid, Vigabatrin, Zonisamide)	7 x 2 x 1 ml
LC04919	Control for Antiepileptics in plasma – Levels 1, 2 and 3 (10,11-Dihydro-10-Hydroxycarbamazepine, Brivaracetam, Carbamazepine, Carbamazepine-epoxide, Desmethylsuximide, Ethosuximide, Gabapentin, Lacosamide, Lamotrigine, Levetiracetam, Metosuximide, Oxcarbazepine, Perampanel, Phelbamate, Phenobarbital, Phenytoin, Pregabalin, Primidone, Rufinamide, Stiripentol, Sultiamine, Tiagabine, Topiramate, Valproic Acid, Vigabatrin, Zonisamide)	3 x 5 x 1 ml
LC05030	Deuterated Internal Standard Mix Solution in plasma (Etosuccimide-D3, Felbamato-D4, Lacosamide-D3, Levetiracetam-D6, Normesuccimide (Desmethylsuccimide)-D5, Zonisamide-D4)	1 x 50 ml
Z25002052130	Hypersil GOLD Analytical Column (50 x 2,1 mm - 1,9 µm) for UHPLC	1 Pc
ZTF17126032130	ACCUCORE C18 Analytical Column (30 x 2,1 mm - 2,6 µm) for HPLC	1 Pc
S51843550	Clear glass vials with reduced volume from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

N°	Code	LC-MS/MS	Pcs
136	LC05110	Antiepileptics in serum and in plasma by LC/MS	1 x 100 tests
137	LC05115	Antiepileptics in serum and in plasma by LC/MS (10,11-Dihydro-10-Hydroxycarbamazepine, Brivaracetam, Carbamazepine, Carbamazepine-epoxide, Desmethyloximide, Ethosuximide, Gabapentin, Lacosamide, Lamotrigine, Levetiracetam, Metosuximide, Oxcarbazepine, Perampanel, Phelbamate, Phenobarbital, Phenytoin, Pregabalin, Primidone, Rufinamide, Stiripentol, Sulthiame, Tiagabine, Topiramate, Valproic Acid, Vigabatrin, Zonisamide)	1 x 500 tests
	SK05010	Starter kit for Antiepileptics in serum and in plasma by LC/MS	44 x 1 ml
	LC05111	Antiepileptics in serum and in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
	LC05121	Antiepileptics in serum and in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
	LC04916	Calibrator for Antiepileptics in plasma (10,11-Dihydro-10-Hydroxycarbamazepine, Brivaracetam, Carbamazepine, Carbamazepine-epoxide, Desmethyloximide, Ethosuximide, Gabapentin, Lacosamide, Lamotrigine, Levetiracetam, Metosuximide, Oxcarbazepine, Perampanel, Phelbamate, Phenobarbital, Phenytoin, Pregabalin, Primidone, Rufinamide, Stiripentol, Sulthiame, Tiagabine, Topiramate, Valproic Acid, Vigabatrin, Zonisamide)	7 x 2 x 1 ml
	LC04919	Control for Antiepileptics in plasma – Levels 1, 2 and 3 (10,11-Dihydro-10-Hydroxycarbamazepine, Brivaracetam, Carbamazepine, Carbamazepine-epoxide, Desmethyloximide, Ethosuximide, Gabapentin, Lacosamide, Lamotrigine, Levetiracetam, Metosuximide, Oxcarbazepine, Perampanel, Phelbamate, Phenobarbital, Phenytoin, Pregabalin, Primidone, Rufinamide, Stiripentol, Sulthiame, Tiagabine, Topiramate, Valproic Acid, Vigabatrin, Zonisamide)	3 x 5 x 1 ml
	LC05130	Deuterated Internal Standard Mix Solution in plasma (10,11-Dihydro-10-Hydroxycarbamazepine-D3, Carbamazepine-D10, Ethosuximide-D3, Lacosamide-D3, Lamotrigine-13C3-D3, Levetiracetam-D6, Methsuximide-D5, Normesuximide(Desmethyloximide)-D5, Oxcarbazepine-D4, Phelbamate-D4, Phenobarbital-D5, Pregabalin-D4, Primidone-D5, Stiripentol-D9, Tiagabine-D6, Topiramate-D12, Valproic Acid-D6, Zonisamide-D4)	1 x 55 ml
	Z699675902	Poroshell 120 EC C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,9 µm)	1 Pc
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

N°	Code	LC-MS/MS	Pcs
DRUGS FOR PANIC, ANXIETY OR MENTAL DISORDERS			

NEW

INSIGHTS

Antidepressants are a class of medications used in emotional and mood disorders, which can evolve into psychosis and other symptoms such as anhedonia, self-devaluation, indecision, lack of appetite, hyperphagia, insomnia, hypersomnia, recurring thoughts of suicide or murder and somatization of pain. These drugs are divided into various classes according to their mechanism of action: - monoamine oxidase inhibitors, tricyclic antidepressants, selective serotonin reuptake inhibitors, serotonin and norepinephrine reuptake inhibitors, noradrenaline reuptake inhibitors, dopamine and noradrenaline reuptake inhibitors, dopamine reuptake inhibitors, serotonergic drugs, specific noradrenergic and serotonergic antidepressants, melatonergic drugs. Given the large number of antidepressants on the market and their increasing use, there is a need for physicians to monitor their plasma concentration in order to avoid episodes of overdose.

138 LC84010

Antidepressants in serum and in plasma by LC/MS

(Amitriptyline, Citalopram and Escitalopram, Clomipramine, Desipramine, Desvenlafaxine, Doxepine, Duloxetine, Fluoxetine, Fluvoxamine, Imipramine, Norclomipramine, Nordoxepine, Norfluoxetine, Nortriptyline, Paroxetine, Sertraline, Venlafaxine)

1 x 100 tests

SK84010	Starter Kit for Antidepressants in serum and in plasma in LC/MS	20 x 1 ml
LC84011	Antidepressants in plasma by LC/MS – Mobile Phase M1	4 x 500 ml
LC84021	Antidepressants in plasma by LC/MS – Mobile Phase M2	4 x 500 ml
LC84016	Calibrator for Antidepressants in Plasma (Amitriptyline, Citalopram and Escitalopram, Clomipramine, Desipramine, Desvenlafaxine, Doxepine, Duloxetine, Fluoxetine, Fluvoxamine, Imipramine, Norclomipramine, Nordoxepine, Norfluoxetine, Nortriptyline, Paroxetine, Sertraline, Venlafaxine)	7 x 2 x 1 ml
LC84019	Control for Antidepressants in Plasma - Levels 1, 2 and 3 (Amitriptyline, Citalopram and Escitalopram, Clomipramine, Desipramine, Desvenlafaxine, Doxepine, Duloxetine, Fluoxetine, Fluvoxamine, Imipramine, Norclomipramine, Nordoxepine, Norfluoxetine, Nortriptyline, Paroxetine, Sertraline, Venlafaxine)	3 x 5 x 1 ml
LC84030	Deuterated Internal Standard Mix Solution in plasma (Clomipramine-D6, Fluoxetine-D5, Sertraline-D3)	1 x 30 ml
Z699675902	Poroshell 120 EC - C18 (50 x 2,1mm - 1,9 µm) Analytical column ~ 1000 injections	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

INSIGHTS

Antipsychotics (or neuroleptics) are drugs that act on the psyche, used in the therapy of psychoses, especially delusional and hallucinatory ones. Antipsychotics are also used, if strictly necessary, in hallucinatory disorders and neuromotor agitation states of non-psychotic diseases, such as dementia and some temporal brain tumors, or some leukodystrophies. Neuroleptic drugs are the cornerstone of psychosis therapy, which metabolic and interneuronal alterations in the central nervous system. A characteristic of psychosis therapy is that in most cases it should not be interrupted. In spite of their sedative effects, neuroleptics are not administered to sedate the patient or to make him sleep, but to control disorders of behavior and ideation, while reducing agitation and aggressiveness. Patients develop tolerance to the sedative effects of neuroleptics over time.

139 LC83010

Antipsychotics in serum and plasma by LC/MS

(Aripiprazole, Clozapine, Fluphenazine, Haloperidol, Norclozapine, Olanzapine, Paliperidone, Quetiapine, Risperidone, Ziprasidone)

1 x 100 tests

SK83010	Starter Kit for Antipsychotics in plasma by LC/MS	13 x 1 ml
LC83011	Antipsychotics in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
LC83021	Antipsychotics in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
LC83016	Calibrator for Antipsychotics in Plasma (Aripiprazole, Clozapine, Fluphenazine, Haloperidol, Norclozapine, Olanzapine, Paliperidone, Quetiapine, Risperidone, Ziprasidone)	7 x 2 x 1 ml
LC83019	Control for Antipsychotics in Plasma - Levels 1, 2 and 3 (Aripiprazole, Clozapine, Fluphenazine, Haloperidol, Norclozapine, Olanzapine, Paliperidone, Quetiapine, Risperidone, Ziprasidone)	3 x 5 x 1 ml
LC83030	Deuterated Internal Standard Mix Solution in plasma (Clozapine-D4, Olanzapine-D8, Risperidone-D4)	1 x 20 ml
Z699675902	Poroshell 120 EC - C18 (50 x 2,1mm - 1,9 µm) Analytical column ~ 1000 injections	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

N°	Code	LC-MS/MS	Pcs
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INSIGHTS

Benzodiazepines are elective drugs in the therapy of anxiety syndromes. Each benzodiazepine has different effects: anxiolytic, hypnotic, sedative, relaxant and anticonvulsive. All benzodiazepines are effective in episodes of anxiety and insomnia. The rapidity of the pharmacological activity depends on how fast the pharmacological concentrations are reached in the Central Nervous System (CNS). Treatment with benzodiazepines induces tolerance and addiction.

140	LC80210	Benzodiazepines in serum by LC/MS (Bromazepam, Chlordemethyldiazepam, Chlordiazepoxide, Clobazam, Clonazepam, Demoxepam, Diazepam, Flunitrazepam, Flurazepam, Lorazepam, Midazolam, Nitrazepam, Norclobazam, Nordiazepam, Oxazepam, Trazodone, Triazolam, Zopiclon)	1 x 100 tests
	SK80210	Starter kit for Benzodiazepines in serum by LC/MS	32 x 1 ml
	LC80211	Benzodiazepines in serum by LC/MS - Mobile Phase M1	4 x 500 ml
	LC80221	Benzodiazepines in serum by LC/MS - Mobile Phase M2	4 x 500 ml
	LC80016	Calibrator for Benzodiazepines in serum (Bromazepam, Chlordemethyldiazepam, Chlordiazepoxide, Clobazam, Clonazepam, Demoxepam, Diazepam, Flunitrazepam, Lorazepam, Midazolam, Nitrazepam, Norclobazam, Nordiazepam, Trazodone, Zopiclon)	7 x 2 x 1 ml
	LC80019	Control for Benzodiazepines in serum - Levels 1, 2 and 3 (Bromazepam, Chlordemethyldiazepam, Chlordiazepoxide, Clobazam, Clonazepam, Demoxepam, Diazepam, Flunitrazepam, Lorazepam, Midazolam, Nitrazepam, Norclobazam, Nordiazepam, Trazodone, Zopiclon)	3 x 5 x 1 ml
	LC80230	Deuterated Internal Standard Mix Solution in serum (Bromazepam-D4, Chlordiazepoxide-D5, Clonazepam-D4, Demoxepam-D5, Diazepam-D5, Flunitrazepam-D7, Lorazepam-D4, Midazolam-D4, Nitrazepam-D5, Norclobazam-D5, Nordiazepam-D5, Oxazepam-D5, Triazolam-D4, Zopiclone-D8)	1 x 33 ml
	Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm)	1 Pc
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

CHEMOTHERAPY DRUGS

		INSIGHTS Tamoxifen is an antitumor drug, belonging to the selective modulator class of estrogen receptors (SERM). The use of Tamoxifen is prescribed for breast cancer treatment and to prevent recurrence. In recent decades, Tamoxifen has been the most important therapeutic agent for the treatment of estrogen-receptor-positive breast cancers. Tamoxifen binds to the estrogen receptor by inhibiting the binding of estrogen and the subsequent proliferation of the tumor. The drug is metabolized in the liver from isoform CYP2D6 cytochrome P450, resulting in the formation of active metabolites, such as endoxifene and the 4-OH-tamoxifen. These molecules have the same binding affinity for the estrogen receptor ER-α and the same capacity to inhibit the proliferation of estrogen-dependent breast tumor cells that express this receptor.	
141	LC92010	Tamoxifen, Endoxifen in plasma by LC/MS	1 x 100 tests
	SK92010	Starter Kit for Tamoxifen, Endoxifen in plasma by LC/MS	3 x 1 ml
	LC92011	Tamoxifen, Endoxifen in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
	LC92021	Tamoxifen, Endoxifen in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
	LC92016	Calibrator for Tamoxifen, Endoxifen in plasma	5 x 2 x 1 ml
	LC92019	Control for Tamoxifen, Endoxifen in plasma - Levels 1 and 2	2 x 5 x 1 ml
	LC92030	Deuterated Internal Standard Solution in plasma (Endoxifene-D5)	1 x 40 ml
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	Z959793902	Analytical column Eclipse Plus C18 ~ 1000 injections (50 x 2,1 mm - 3,5 µm) for HPLC	1 Pc
	Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm) for UHPLC	1 Pc

N°	Code	LC-MS/MS	Pcs
142	LC85010	<p>INSIGHTS</p> <p>Fluorouracil (5-FU) is considered the most efficient and most used antineoplastic agent for the treatment of gastrointestinal, breast and ovary tumors. 5-FU acts by antagonizing thymidylate synthase (TS). Its conversion to 5-Fluoro - 2'deoxy - 5'-monophosphate (FdUMP) leads to inhibition of TS thus blocking the synthesis of DNA and interrupting the whole transcriptional process and protein synthesis. The great efficacy of this drug, however, goes hand in hand with its low therapeutic index. 5-FU is catabolized primarily by the enzyme dihydropyrimidine dehydrogenase and patients with complete or partial functional deficiency of this enzyme are likely to develop side effects such as cardiac toxicity, myelosuppression and renal failure. This method allows to determine, ex-vivo, the rate of degradation of the drug 5-fluorouracil (5-FU). After purification of peripheral blood lymphocytes, the cells are incubated with a known amount of 5-FU, and the amount of drug metabolised after 2 hours is determined by LC-MS/MS. The present method allows the evaluation in a preventive manner of the rate of degradation of 5 - fluorouracil, in order to highlight the toxic risk to an individual before administration of the therapy.</p> <p>Degradation rate of 5-fluorouracil in Peripheral Blood Mononuclear Cell (PBMC) by LC-MS/MS</p> <p>A Lymphocyte counter is necessary!</p>	1 x 100 tests
		SK85010 Starter Kit for 5-Fluorouracil in PBMC by LC-MS/MS	2 x 1 ml
		LC85011 5-Fluorouracil in PBMC by LC-MS/MS - Mobile Phase M1	4 x 500 ml
		LC85021 5-Fluorouracil in PBMC by LC-MS/MS - Mobile Phase M2	4 x 500 ml
		LC85016 Calibrator for 5-Fluorouracil in serum	7 x 2 x 1 ml
		LC85019 Control for 5-Fluorouracil in serum - Levels 1 and 2	2 x 5 x 1 ml
		ZA2001100X020 Polaris 3µ C18 Analytical column ~ 1000 injections (100 x 2 mm, 3 µm)	1 Pc
		51843550 Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
		Z51820717 Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
		L-30-210 Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
143	LC94010	<p>INSIGHTS</p> <p>Irinotecan is an antineoplastic chemotherapy drug of the class of camptothecins (drugs extracted from the bark of <i>Camptotheca acuminata</i>). Actually, Irinotecan is a pro drug. Its activation occurs at a hepatic level thanks to the transformation effected by the enzymecarboxesterase in SN 38. Irinotecan and SN 38 are then eliminated mainly through the bile. Therefore, the dosage should be reduced in patients with hepatic insufficiency.</p> <p>Irinotecan and 7-Ethyl-10-Hydroxycamptothecin (SN38) in serum and in plasma by LC/MS</p>	1 x 100 tests
		SK94010 Starter kit for Irinotecan/SN38 in serum and in plasma by LC-MS/MS	3 x 1 ml
		LC94011 Irinotecan/7-Ethyl-10-Hydroxycamptothecin (SN38) in serum and in plasma by LC/MS - Mobile Phase M1	4 x 500 ml
		LC94021 Irinotecan/7-Ethyl-10-Hydroxycamptothecin (SN38) in serum and in plasma by LC/MS - Mobile Phase M2	4 x 500 ml
		LC94016 Calibrator for Irinotecan/SN38 in plasma	5 x 2 x 1 ml
		LC94019 Control for Irinotecan/SN38 in plasma - Levels 1 and 2	2 x 5 x 1 ml
		LC94030 Deuterated Internal Standard Solution in plasma (Irinotecan-D10)	1 x 40 ml
		For HPLC systems	
		ZTF2500305213 Hypersil Gold Analytical column ~ 1000 injections (50 x 2.1 mm - 3.0 µm)	1 Pc
		For UHPLC systems	
		Z25002052130 Hypersil Gold Analytical column ~ 1000 injections (50 x 2.1 mm - 1.9 µm)	1 Pc
		S51843550 Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
		S51820717 Caps for Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
		L-30-210 Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs

N°	Code	LC-MS/MS	Pcs	
144	LC99010	INSIGHTS Ponatinib (Iclusig®), has been approved for the treatment of patients with Chronic Myeloid Leukemia (CSF) in the chronic, accelerated or blastic phase, resistant or intolerant to dasatinib or nilotinib and for whom subsequent treatment with imatinib is not clinically appropriate, or in whom the T315I mutation has been identified. Unfortunately, the clinical use of ponatinib is limited by the possible occurrence of occlusive vascular events (thrombosis and arterial and venous occlusions, including fatal myocardial infarction, stroke, stenosis of the large arterial vessels of the brain, severe peripheral vasculopathy). The Eureka Lab Division diagnostic KIT allows to constantly monitor the plasma concentrations of ponatinib during the therapy of each individual patient. Therefore, it represents for clinicians an important support tool, able to guarantee them the possibility of avoiding excessive plasma exposure to ponatinib that could cause thrombotic events.		
		Ponatinib in plasma by LC/MS	1 x 100 tests	
		SK99010	Starter kit for Ponatinib in plasma	2 x 1 ml
		LC99011	Ponatinib in plasma - Mobile Phase M1	4 x 500 ml
		LC99021	Ponatinib in plasma - Mobile Phase M2	4 x 500 ml
		LC99016	Calibrator for Ponatinib in plasma	7 x 2 x 1 ml
		LC99019	Control for Ponatinib in plasma – Levels 1, 2 and 3	3 x 5 x 1 ml
		LC99030	Deuterated Internal Standard Solution in plasma (Ponatinib-D8)	1 x 40 ml
		S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
		S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
		L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
		For UHPLC systems		
		Z959757902	Zorbax RRHD C18 Analytical column ~ 1000 injections (50 x 2,1 mm –1,8 µm)	1 Pc
		For HPLC systems		
		Z959793902	Eclipse Plus C18 Analytical column ~ 1000 injections (100 x 2,1 mm –3,5 µm)	1 Pc



OCCUPATIONAL TOXICOLOGY

N°	Code	LC-MS/MS	Pcs
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NEW**INSIGHTS**

The measuring of t,t- Muconic Acid is suggested as a reliable biological marker for monitoring workers exposed to benzene. Benzene is an industrial chemical product which often appears in mineral oils following combustion processes. For this reason, there is a high risk of environmental pollution. Acute exposure to benzene can cause drowsiness, dizziness, rapid heart rate, headaches, tremors, confusion, unconsciousness and death.

145 **LC23010** **t,t Muconic Acid and S-Phenylmercapturic Acid in urine by LC/MS** 1 x 100 tests

SK23010	Starter Kit for t,t Muconic Acid and S- Phenylmercapturic Acid in urine by LC/MS	4 x 1 ml
LC23011	t,t Muconic Acid and S-Phenylmercapturic Acid in urine by LC/MS - Mobile Phase M1	4 x 500 ml
LC23021	t,t Muconic Acid and S-Phenylmercapturic Acid in urine by LC/MS - Mobile Phase M2	4 x 500 ml
LC23016	Calibrator for t,t Muconic Acid and S-Phenylmercapturic Acid in urine	6 x 2 x 1 ml
LC23019	Control for t,t Muconic Acid and S-Phenylmercapturic Acid in urine - Levels 1 and 2	2 x 5 x 1 ml
LC23030	Deuterated Internal Standard Mix Solution in urine (s-Phenylmercapturic Acid -D5, t,t-Muconic Acid -13C6)	1 x 10 ml
S695970902	Phoroshell 120 EC-C18 Analytical column ~ 1000 injections (4 µm, 4.6 x 100 mm)	1 Pc
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs



FORENSIC TOXICOLOGY

N°	Code	LC-MS/MS	Pcs
DRUGS OF ABUSE IN URINE			

INSIGHTS

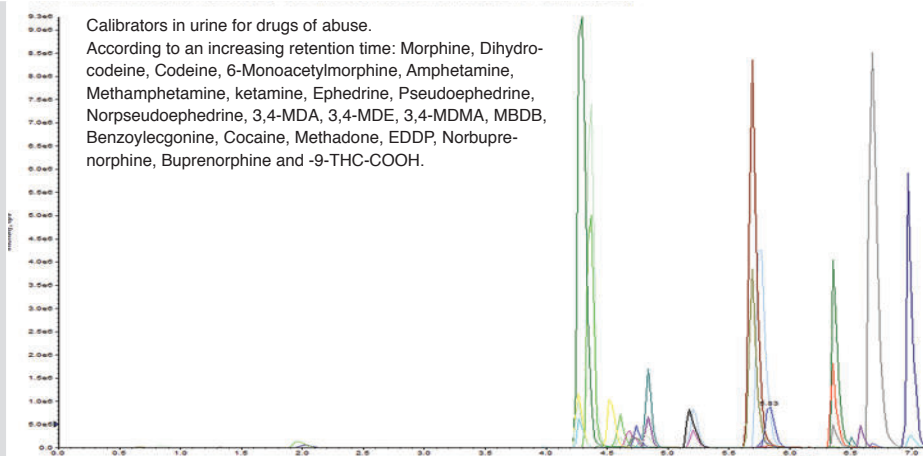
Determination of substances of abuse in biological liquids is generally performed using immunometric techniques which are based on the Antigen-Antibody reaction. These methods are considered as screening. Since such techniques cannot exclude false positives, positive results have to be confirmed with alternative techniques, usually Gas Chromatography (GC) or Liquid Chromatography (LC), both coupled with Mass Spectrometer (MS).

146 **LC74010****Drugs of Abuse in urine by LC/MS (Preparation for homologous compounds)**

(3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC-COOH, Dihydrocodeine, EDDP, Ephedrine, Ethylmorphine, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine, Norpseudoephedrine, Pseudoephedrine)

1 x 100 tests

SK74010	Starter kit for Drugs of Abuse in urine by LC/MS	30 x 1 ml
LC74011	Drugs of Abuse in urine by LC/MS - Mobile Phase M1	4 x 500 ml
LC74021	Drugs of Abuse in urine by LC/MS - Mobile Phase M2	4 x 500 ml
CC43016	Calibrator for Amphetamines in urine (3,4-MDA, 3,4-MDE, 3,4-MDMA, Amphetamine, Ephedrine, Ketamine, MBDB, Metamphetamine, Norpseudoephedrine, Pseudoephedrine)	5 x 2 x 5 ml
CC44016	Calibrator for Norbuprenorphine and Buprenorphine in urine	5 x 2 x 6 ml
CC45016	Calibrator for Opiates in urine (Codeine, Dihydrocodeine, Ethylmorphine, Morphine)	5 x 2 x 5 ml
CC45116	Calibrator for 6-Monoacetylmorphine in urine	5 x 2 x 5 ml
CC46016	Calibrator for Benzoyllecgonine and Cocaethylene in urine	5 x 2 x 5 ml
CC46116	Calibrator for Cocaine in urine	5 x 2 x 5 ml
CC47016	Calibrator for delta-9-THC-COOH in urine	5 x 2 x 10 ml
CC48016	Calibrator for Methadone in urine	5 x 2 x 5 ml
CC48116	Calibrator for EDDP in urine	5 x 2 x 5 ml
CC43019	Multiparametric Control for Drugs of Abuse in urine - Levels 1 and 2 (3,4-MDA, 3,4-MDE, 3,4-MDMA, Amphetamine, Benzoyllecgonine, Cocaethylene MBDB, Ephedrine, Ketamine, MBDB, Metamphetamine, Norpseudoephedrine, Pseudoephedrine)	2 x 6 x 5 ml
CC44019	Control for Norbuprenorphine and Buprenorphine in urine - Levels 1 and 2	2 x 6 x 6 ml
CC45019	Control for Opiates in urine - Levels 1 and 2 (Codeine, Dihydrocodeine, Ethylmorphine, Morphine)	2 x 6 x 5 ml
CC47019	Control for delta-9-THC-COOH in urine - Levels 1 and 2	2 x 6 x 10 ml
CC48019	Control for EDDP, 6-Monoacetylmorphine and cocaine in urine - Levels 1 and 2	2 x 6 x 5 ml
LC74030	Deuterated Internal Standard Mix Solution in urine (Amphetamine-D11, Beg-D8, Cocaine-D3, EDDP-D3, MDA-D5, MDE-D5, MDMA-D5, Metamphetamine-D11, Methadone-D9)	1 x 200 ul
LC74130	Deuterated Internal Standard Mix Solution in urine (6-MAM-D6, Codeine-D6, Morphine-D6, Norbuprenorphine-D3)	1 x 500 ul
LC74330	Deuterated Internal Standard Solution in urine (Δ9-THC-COOH - D9)	1 x 200 ul
ZTF17126032130	ACCUCORE C 18 Analytical column ~ 1000 injections (30 x 2,1 mm - 2,6 μm) for HPLC	1 Pc
Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 μm) for UHPLC	1 Pc
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hidrolisis, till 300 °C-washable and reusable)	1 x 40 Pcs



N°	Code	LC-MS/MS	Pcs
147	LC74210	Drugs of Abuse in urine by LC/MS (One preparation for all) (Amphetamine, Metamphetamine, 3,4-MDMA, 3,4-MDA, 3,4-MDE, MBDB, Ketamine, Ephedrine, Pseudoephedrine, Norpseudoephedrine, Morphine, 6-MAM, Codeine, Dihydrocodeine, Beg, Cocaine, Methadone, EDDP, Norbuprenorphine, delta-9-THC-COOH, Buprenorphine)	1 x 100 tests
		SK74210 Starter kit for Drugs of Abuse in urine by LC/MS	36 x 1 ml
		LC74011 Drugs of Abuse in urine by LC/MS - Mobile Phase M1	4 x 500 ml
		LC74021 Drugs of Abuse in urine by LC/MS - Mobile Phase M2	4 x 500 ml
		LC74016 Multiparametric Calibrator for Drugs of Abuse in urine (Amphetamine, Metamphetamine, 3,4-MDMA, 3,4-MDA, 3,4-MDE, MBDB, Ketamine, Ephedrine, Pseudoephedrine, Norpseudoephedrine, Morphine, 6-MAM, Codeine, Dihydrocodeine, Beg, Cocaine, Methadone, EDDP, Norbuprenorphine, delta-9-THC-COOH, Buprenorphine)	5 x 2 x 1 ml
		LC74019 Multiparametric Control for Drugs of Abuse in urine – Levels 1 and 2 (Amphetamine, Metamphetamine, 3,4-MDMA, 3,4-MDA, 3,4-MDE, MBDB, Ketamine, Ephedrine, Pseudoephedrine, Norpseudoephedrine, Morphine, 6-MAM, Codeine, Dihydrocodeine, Beg, Cocaine, Methadone, EDDP, Norbuprenorphine, delta-9-THC-COOH, Buprenorphine)	2 x 5 x 1 ml
		LC74230 Deuterated Internal Standard Mix Solution in urine (6MAM-D6, Amphetamine-D11, BEG-D8, Cocaine-D3, Codeine-D6, EDDP-D3, MDA-D5, MDE-D5, MDMA-D5, Methadone-D9, Metamphetamine-D11, Morphine-D6, Norbuprenorphine-D3, THC-COOH-D9, Buprenorphine D4)	1 x 2 ml
		Z959757902 RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm)	1 Pc
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

INSIGHTS

Ethyl glucuronide is a non-volatile molecule, polar, relatively stable and formed by conjugation of Ethanol with Glucuronic Acid with mediation of UDP-glucuronyl-transferase (UGT), a superfamily of highly polymorphic enzymes. The Ethylglucuronide seems to be synthesized by various isoforms with UGT function. The lack of one of these isoforms in an individual, does not indicate significant variations in the formation of Ethyl glucuronide. Therefore, individuals belonging to different ethnic groups, most likely synthesize the same percentage of the compound after Alcohol consumption. It has been estimated that only 0.02-0.06 % of Ethanol consumed is transformed into Ethyl glucuronide.

148	LC78010	Ethylglucuronide and Ethylsulfate in urine by LC/MS	1 x 100 tests
		SK78010 Starter kit for Ethylglucuronide and Ethylsulfate in urine by LC/MS	4 x 1 ml
		LC78011 Ethylglucuronide and Ethylsulfate in urine by LC/MS - Mobile Phase M1	4 x 500 ml
		LC78021 Ethylglucuronide and Ethylsulfate in urine by LC/MS - Mobile Phase M2	4 x 500 ml
		LC78016 Calibrator for Ethylglucuronide and Ethylsulfate in urine	5 x 2 x 1 ml
		LC78019 Control for Ethylglucuronide and Ethylsulfate in urine - Levels 1 and 2	2 x 5 x 1 ml
		LC78030 Deuterated Internal Standard Solution in urine (Ethylglucuronide-D5)	1 x 2,5 ml
		LC78130 Deuterated Internal Standard Solution in urine (Ethylsulfate-D5)	1 x 2,5 ml
		ZA2001100X020 Polaris 3µ C18 Analytical column ~ 1000 injections (100 x 2 mm, 3 µm)	1 Pc
		S29057U Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

N°	Code	LC-MS/MS	Pcs
DRUGS OF ABUSE IN HAIR			

INSIGHTS

Testing hair for substances is used to prove prolonged use, abuse and misuse of such substances to characterize intensity and history. This gives analytical data with medical and legal value. Hair analysis of such substances can be requested in case of death related to substance abuse, evaluation of suitability for driving, criminal responsibility, custody of minors, prenatal exposure to substances and lastly to confirm sporadic consumption in work involving high risk activities.

149 LC49010**Drugs of Abuse in hair by LC/MS**

(3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, Ecgonine Methyl Ester, EDDP, Ethylmorphine, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)

1 x 50 tests

SK49010	Starter kit for Drugs of Abuse in hair by LC/MS	32 x 1 ml
LC49011	Drugs of Abuse in hair by LC/MS - Mobile Phase M1	4 x 500 ml
LC49021	Drugs of Abuse in hair by LC/MS - Mobile Phase M2	4 x 500 ml
CC49016	Calibrator for Drugs of Abuse in hair (3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, Ecgonine Methyl Ester, EDDP, Ethylmorphine, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)	1 x 2000 mg/ 1 x 3 x 0,3 ml/ 1 x 25 ml
CC49019	Control for Drugs of Abuse in hair - Levels 1 and 2 (3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, Ecgonine Methyl Ester, EDDP, Ethylmorphine, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)	1 x 1500 mg/ 1 x 2 x 0,4 ml/ 1 x 25 ml
LC49030	Deuterated Internal Standard Mix Solution in hair (6-MAM-D6, Amphetamine-D11, BEG-D8, Buprenorphine-D4, Cocaethylene-D3, Cocaine-D3, Codeine-D6, EDDP-D3, MDA-D5, MDE-D5, MDMA-D5, Methadone-D9, Metamphetamine-D11, Morphine-D6, Norbuprenorphine-D3)	1 x 300 ul
ZTF17126032130	ACCUCORE C18 Analytical column ~ 1000 injections (30 x 2,1 mm - 2,6 µm) for HPLC	1 Pc
Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm) for UHPLC	1 Pc
S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

INSIGHTS

Delta-9-TetraCannabinol (commonly called THC, Delta-9-THC or Tetrahydrocannabinol) is one of the main and best known active principles of cannabis. It is a psychotropic substance produced by cannabis flowers, it can be ingested and most commonly smoked. It has pain-killing properties (sometimes used as treatment for pain), causes euphoria, anti-nausea, antiemetic, can stimulate appetites and reduce intraocular pressure and aggressiveness.


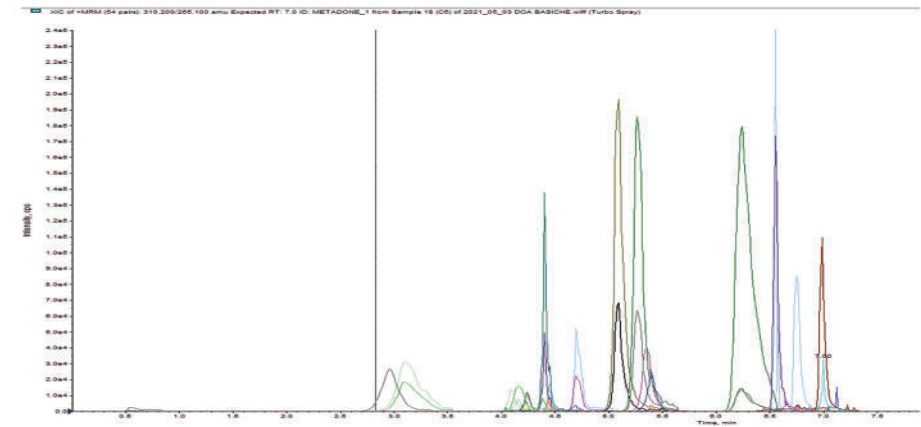
150 LC53010**Delta-9-THC and Delta 9 THC-COOH in hair by LC/MS**

Important: need an evaporation system!

1 x 50 tests

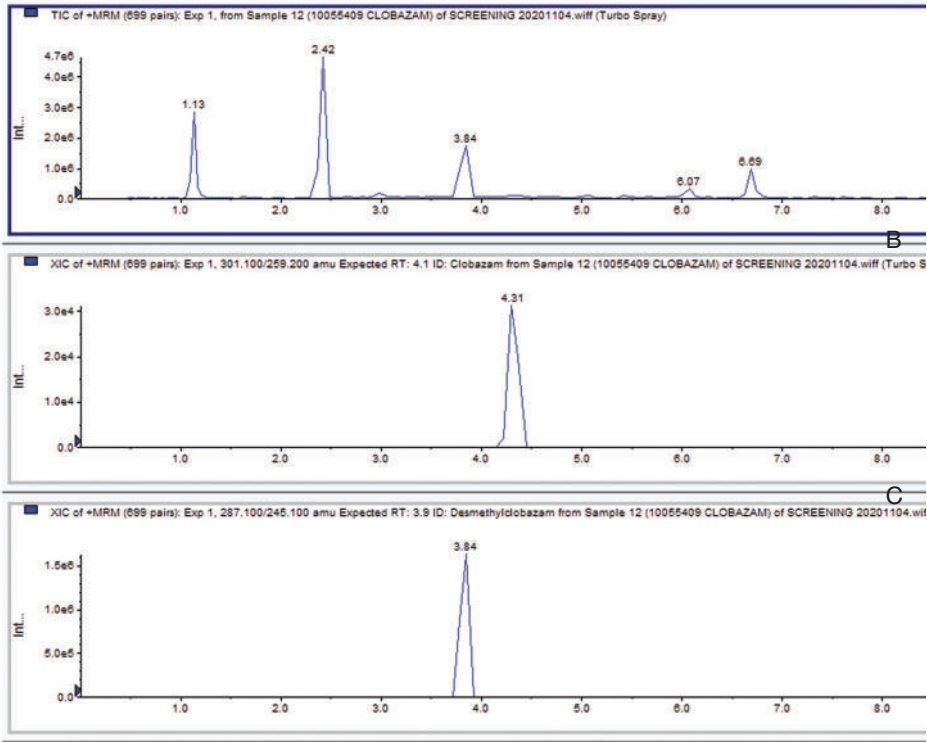
SK53010	Starter kit for Delta-9-THC and Delta 9 THC-COOH in hair by LC/MS	4 x 1 ml
LC53011	Delta-9-THC and Delta 9 THC-COOH in hair by LC/MS - Mobile Phase M1	4 x 500 ml
LC53021	Delta-9-THC and Delta 9 THC-COOH in hair by LC/MS - Mobile Phase M2	4 x 500 ml
CC53016	Calibrator for Delta-9-THC and Delta 9 THC-COOH in hair by LC/MS	1 x 2000 mg/ 1 x 0,5 ml/ 1 x 10 ml
CC53019	Control for Delta-9-THC and Delta 9 THC-COOH in hair by LC/MS - Levels 1 and 2	1 x 1000 mg/ 1 x 0,5 ml/ 1 x 12,5 ml
LC53030	Deuterated Internal Standard Mix Solution in hair (Δ9-THC-COOH-D9, Δ9-THC-D3)	1 x 200 ul
ZTF17126032130	ACCUCORE C18 Analytical column ~ 1000 injections (30 x 2,1 mm, 2,6 µm) for HPLC	1 Pc
Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm) for UHPLC	1 Pc
S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

N°	Code	LC-MS/MS	Pcs
151	LC95010	<p>INSIGHTS</p> <p>Ethyl glucuronide is a non-volatile molecule, polar, relatively stable and formed by conjugation of Ethanol with Glucuronic Acid with mediation of UDP-glucuronyl-transferase (UGT), a superfamily of highly polymorphic enzymes. The Ethylglucuronide seems to be synthesized by various isoforms with UGT function. The lack of one of these isoforms in an individual, does not indicate significant variations in the formation of Ethyl glucuronide. Therefore, individuals belonging to different ethnic groups, most likely synthesize the same percentage of the compound after Alcohol consumption. It has been estimated that only 0.02-0.06 % of Ethanol consumed is transformed into Ethyl glucuronide.</p> <p>Ethylglucuronide in hair by LC/MS</p> <p>An ultrasonic bath is necessary!</p>	1 x 50 tests
	SK95010	Starter Kit for Ethylglucuronide in hair by LC/MS	2 x 1 ml
	LC95011	Ethylglucuronide in hair by LC/MS - Mobile Phase M1	4 x 500 ml
	LC95021	Ethylglucuronide in hair by LC/MS - Mobile Phase M2	4 x 500 ml
	LC95016	Calibrator for Ethylglucuronide in hair	1 x 4000 mg/ 6 x 250 µl
	LC95019	Control for Ethylglucuronide in hair - Levels 1 and 2	1 x 4000 mg/ 2 x 250 µl
	LC95030	Deuterated Internal Standard Solution in hair (Ethylglucuronide-D5)	1 x 150 µl
	ZA2001100X020	Polaris 3µ C18 (100 x 2 mm - 3 µm) Analytical column ~ 1000 injections	1 Pc
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	Z1636/26	10 ml Pyrex Tubes with cap SWL (for hydrolysis, till 300°C - washable and reusable)	1 x 40 Pcs

N°	Code	LC-MS/MS	Pcs
DRUGS OF ABUSE IN WHOLE BLOOD			
152	LC89010	<p>INSIGHTS</p> <p>Determination of substances of abuse in biological liquids is generally performed using immunometric techniques which use the Antigen-Antibody reaction and later marking with various reagents. These methods are considered as screening. Since such techniques cannot exclude false positives, positive results have to be confirmed with alternative techniques, usually Gas Chromatography (GC) or Liquid Chromatography (LC), both coupled with Mass Spectrometer (MS).</p> <p>Drugs of Abuse in whole blood by LC/MS (3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, 11-OH-THC, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC, delta-9-THC-COOH, Ecgonine Methyl Ester, EDDP, Ethylmorphine, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)</p>	1 x 100 tests
			
	SK89010	Starter Kit for Drugs of Abuse in whole blood by LC/MS	37 x 1 ml
	LC89011	Drugs of Abuse in whole blood by LC/MS - Mobile Phase M1	4 x 500 ml
	LC89021	Drugs of Abuse in whole blood by LC/MS - Mobile Phase M2	4 x 500 ml
	LC89016	Calibrator for Drugs of Abuse in whole blood (3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, 11-OH-THC, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC, delta-9-THC-COOH, Ecgonine Methyl Ester, EDDP, Ethylmorphine, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)	7 x 2 x 1 ml
	LC89019	Control for Drugs of Abuse in whole blood - Levels 1, 2 and 3 (3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, 11-OH-THC, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC, delta-9-THC-COOH, Ecgonine Methyl Ester, EDDP, Ethylmorphine, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Norbuprenorphine)	3 x 5 x 1 ml
	LC89030	Deuterated Internal Standard Mix Solution in whole blood (11-OH-THC-D3, 6 MAM-D6, Amphetamine-D11, Beg-D8, Cocaethylene-D3, Cocaine-D3, Codeine-D6, EDDP-D3, MDA-D5, MDE-D5, MDMA-D5, Methadone-D9, Methamphetamine-D11, Morphine-D6, Norbuprenorphine-D3, THC COOH-D9, THC-D3)	1 x 300 ul
	Z959757902	RRHD Eclipse Plus C18 Analytical column ~ 1000 injections (50 x 2,1 mm - 1,8 µm)	1 Pc
	ZTF25403012101	Hypersil GOLD PFP Guard Prefilters (10 x 2,1 mm, 3 µm) - Specific for Monodimensional Modality	1 x 4 Pcs
	TF84200	2mm DROP-IN HOLDER	1 Pc
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
		 <p>Calibrators in whole blood for drugs of abuse. According to an increasing retention time: Cocaethylene, Benzoyllecgonine, Cocaine, Methadone, EDDP, Norbuprenorphine, Buprenorphine, Ecgonine, Morphine, Codeine, 6-Monoacetylmorphine, Amphetamine, Methamphetamine, 3,4-MDA, 3,4-MDE, 3,4-MDMA, MBDB, Methyl Ester, D-9-THC, D-9-THC-COOH and 11-OH-THC.</p>	

N°	Code	LC-MS/MS	Pcs
153	NEW LC98010	Drugs of Abuse in saliva by LC/MS (3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-MAM, Amphetamine, Benzoyllecgonine, Buprenorphine, Cocaethylene, Cocaine, Codeine, delta-9-THC, EDDP, Ketamina, MBDB, Metamphetamine, Methadone, Morphine)	1 x 100 tests
	SK98010	Starter Kit for Drugs of Abuse in Saliva by LC/MS	32 x 1 ml
	LC98011	Drugs of Abuse in Saliva by LC/MS - Mobile Phase M1	4 x 500 ml
	LC98021	Drugs of Abuse in Saliva by LC/MS - Mobile Phase M2	4 x 500 ml
	LC98016	Calibrator for Drugs of Abuse in Saliva (6-MAM, Cocaine, Benzoyllecgonine, delta-9-THC, Buprenorphine, Morphine, Codeine, Amphetamine, Metamphetamine, 3,4-MDA, 3,4-MDE, 3,4-MDMA, Ketamina, MBDB, Methadone, EDDP, Cocaethylene)	7 x 1 x 300 µl
	LC98019	Control for Drugs of Abuse in Saliva - Levels 1 and 2 (Morphine, Codeine, 6-MAM, Cocaine, Benzoyllecgonine (Ketamina,, delta-9-THC, Buprenorphine, Amphetamine, Metamphetamine, 3,4-MDA, 3,4-MDE, 3,4-MDMA, MBDB, Methadone, EDDP, Cocaethylene)	2 x 1 x 300 µl
	LC98030	Deuterated Internal Standard Mix Solution in saliva (6 MAM-D6, Amphetamine-D11, BEG-D8, Buprenorphine-D4, Cocaethylene-D3, Cocaine-D3, Codeine-D6, EDDP-D3, MDA-D5, MDE-D5, MDMA-D5, Methadone-D9, Methamphetamine-D11, Morphine-D6, THC-D3)	1 x 30 ml
	ZTF25402052130	Hypersil GOLD PFP Analytical column ~ 1000 injections (50 x 2,1mm x 1,9 µm)	1 Pc
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	W98011	Needle Wash Drugs of Abuse by LC/MS	4 x 500 ml
154	NEW LC20000	Identification of illicit substances on unknown samples by LC/MS (3,4-MDMA, 3,4- MDA 3,4- MDE, Acetylsalicylic acid, Aminophenazone, Amphetamine, Benzocaine, Buprenorphine, Caffeine, Cocaine, Diacetylmorphine, Diltiazem, Ephedrine, Hydroxyzine, Ibuprofen, Ketamine, Levamisole, Lidocaine, MBDB, Metamphetamine, Methadone, Methorphan, Monoacetylmorphine, Morphine, Naloxone, Nicotine, Noscapine, Paracetamol, Paroxetine, Phenacetin, Procainamide, Procaine, Pseudoephedrine, Sulphamethoxazole, THC, Trimethoprim, Tropacocaine)	1 x 100 tests
	SK20000	Starter kit for Illicit Substances on unknown confiscated samples	44 x 1 ml
	LC20011	Illicit Substances on unknown confiscated samples by LC/MS - Mobile Phase M1	4 x 500 ml
	LC20021	Illicit Substances on unknown confiscated samples by LC/MS - Mobile Phase M2	4 x 500 ml
	LC20016	Calibrator for Illicit Substances on unknown confiscated samples by LC/MS (3,4-MDMA, 3,4- MDA 3,4- MDE, Acetylsalicylic acid, Aminophenazone, Amphetamine, Benzocaine, Buprenorphine, Caffeine, Cocaine, Diacetylmorphine, Diltiazem, Ephedrine, Hydroxyzine, Ibuprofen, Ketamine, Levamisole, Lidocaine, MBDB, Metamphetamine, Methadone, Methorphan, Monoacetylmorphine, Morphine, Naloxone, Nicotine, Noscapine, Paracetamol, Paroxetine, Phenacetin, Procainamide, Procaine, Pseudoephedrine, Sulphamethoxazole, THC, Trimethoprim, Tropacocaine)	6 x 4 x 1,5 ml
	LC20019	Control for Illicit Substances on unknown confiscated samples by LC/MS - Levels1 and 2 (3,4-MDMA, 3,4- MDA 3,4- MDE, Acetylsalicylic acid, Aminophenazone, Amphetamine, Benzocaine, Buprenorphine, Caffeine, Cocaine, Diacetylmorphine, Diltiazem, Ephedrine, Hydroxyzine, Ibuprofen, Ketamine, Levamisole, Lidocaine, MBDB, Metamphetamine, Methadone, Methorphan, Monoacetylmorphine, Morphine, Naloxone, Nicotine, Noscapine, Paracetamol, Paroxetine, Phenacetin, Procainamide, Procaine, Pseudoephedrine, Sulphamethoxazole, THC, Trimethoprim, Tropacocaine)	2 x 4 x 1,5 ml
	LC20030	Deuterated Internal Standard Mix Solution on unknown samples (6-MAM-D6, Buprenorphine-D4, Cocaine-D3, Methadone-D9, Morphine-D6, THC-D3)	1 x 6 ml
	TF25402052130	Hypersil GOLD PFP Analytical column ~ 1000 injections (50 x 2,1 mm -1,9 µm)	1 Pc
	Z1636/26	10 ml Pyrex tubes with cap SWL (for hydrolysis, till 300°C-washable and reusable)	1 x 40 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S29057U	Standard glass Vial of 2 ml with screw cap for Autosampler	1 x 100 Pcs

N°	Code	LC/MS	Pcs
155	NEW LC88810	INSIGHTS The objective of this method is to titrate the concentrations of certain forms of cannabinoids present in galenic oil production. The pharmacist shall prepare in the pharmacy magistral cannabis-based preparations in compliance with the NBP. In order to ensure the quality of the product, the titration of the active substance(s) must be carried out for each herbal preparation by sensitive and specific methods such as liquid or gas chromatography coupled with mass spectrometry and the extraction method must be authorised in accordance with current legislation.	1 x 100 tests
		Oleolites (Phytocannabinoids for therapeutic use) by LC/MS (THC: Tetrahydrocannabinol- CBD: Cannabidiol- CBN: Cannabinol- CBG: Cannabigerol THCA: Tetrahydrocannabinolic Acid - CBDA: Cannabidiolic Acid - THCV: Tetrahydrocannabivarin)	
		SK88810 Starter Kit for Oleolites Phytocannabinoids for Therapeutic use	
		LC88811 Oleolites Phytocannabinoids for Therapeutic use – Mobile Phase M1	
		LC88821 Oleolites Phytocannabinoids for Therapeutic use – Mobile Phase M2	
		LC88816 Calibrator for Oleolites Phytocannabinoids for Therapeutic use (THC: Tetrahydrocannabinol- CBD: Cannabidiol- CBN: Cannabinol- CBG: Cannabigerol THCA: Tetrahydrocannabinolic Acid - CBDA: Cannabidiolic Acid - THCV: Tetrahydrocannabivarin)	
		LC88819 Controls for Oleolites Phytocannabinoids for Therapeutic use - Levels 1 and 2 (THC: Tetrahydrocannabinol- CBD: Cannabidiol- CBN: Cannabinol- CBG: Cannabigerol THCA: Tetrahydrocannabinolic Acid - CBDA: Cannabidiolic Acid - THCV: Tetrahydrocannabivarin)	
		LC 88830 Deuterated Internal Standard Mix Solution in oil (Cannabidiol-D3, Cannabinol-D3, THC-D3)	
		TF25402052130 Hypersil GOLD PFP Analytical column ~ 1000 injections (50 x 2,1mm x 1,9 µm)	
		L-30-210 Eppendorf Tubes by 1,5 ml with caps	
156	SC9000	INSIGHTS The kit for toxicological forensic analysis is a method for screening 700 molecules of pharmacological and toxicological interest. They include drugs and antiepileptics, antidepressants and benzodiazepines, substances of abuse such as opioids, cannabinoids and cocaine. The matrices are urine, plasma and whole blood. The sample preparation procedure is very simple and quick for all of the matrices which have been considered.	1 x 200 tests
157	SC9005	Fast Toxicological Screening kit in urine, plasma and whole blood - Sciex	1 x 500 tests
		SC9011 Fast Toxicological Screening - Mobile Phase M1	4 x 500 ml
		SC9021 Fast Toxicological Screening - Mobile Phase M2	4 x 500 ml
		SK9001 Peek Tubing set	1 Pc
		SRE9169552 ALLURE PFPP Analytical column ~ 1000 injections (50 x 2,1 mm - 5 µm)	1 Pc
		S90199511 Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
		S51843550 Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
		S51820717 Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs

N°	Code	LC/MS	Pcs
158	SC9000B	Fast Toxicological Screening kit in plasma and whole blood - Sciex	1 x 200 tests
159	SC9005B	Fast Toxicological Screening kit in plasma and whole blood - Sciex	1 x 500 tests
	SC9011	Fast Screening of Toxicology - Mobile Phase M1	4 x 500 ml
	SC9021	Fast Screening of Toxicology - Mobile Phase M2	4 x 500 ml
	SK9001	Peek Tubing set	1 Pc
	SRE9169552	ALLURE PFPP Analytical column ~ 1000 injections (50 x 2,1 mm - 5 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
160	SC9000U	Fast Toxicological Screening Kit in urine - Sciex	1 x 200 tests
161	SC9005U	Fast Toxicological Screening Kit in urine - Sciex	1 x 500 tests
	SC9011	Fast Toxicological Screening - Mobile Phase M1	4 x 500 ml
	SC9021	Fast Toxicological Screening - Mobile Phase M2	4 x 500 ml
	SK9001	Peek tubing set	1 Pc
	SRE9169552	ALLURE PFPP Analytical column ~ 1000 injections (50 x 2,1 mm - 5 µm)	1 Pc
	S90199511	Javelin Prefilter (Analytical column protection)	1 x 10 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials A	1 x 100 Pcs
	 <p>Chromatograms of the Fast Toxicological Screening Kit in urine (SC9000U)</p> <p>A) Total Ion Current for all the molecules which have been included in the screening B) Chromatogram that shows the presence of Clobazam in the sample C) Chromatogram that shows the presence of Desmethyloclobazam, the metabolite of Clobazam, in the sample.</p>		

N°	Code	LC-MS/MS	Pcs
162	SC1000	Fast screening kit of 1st level for labelled Drugs of Abuse in urine/hair/whole blood by LC/MS (11-OH-THC, 3,4-MDA, 3,4-MDE, 3,4-MDMA, 6-Monoacetylmorphine, Amphetamine, Benzoyllecgonine, Buprenorphine delta-9-THC-COOH, Buprenorphine glucuronide, Cocaethylene, Cocaine, Codeine, Codeine-6-beta-glucuronide, Dihydrocodeine, Ecgonine Methyl Ester, EDDP, Ketamine, MBDB, Metamphetamine, Methadone, Morphine, Morphine-3-beta-glucuronide, Morphine-6-beta-glucuronide, Norbuprenorphine, Norbuprenorphine glucuronide, Oxycodone, THC-COOH glucuronide)	1 x 200 tests
	SC1011	Fast Screening kit of 1st level for labelled Drugs of Abuse - Mobile Phase M1	4 x 500 ml
	SC1021	Fast Screening kit of 1st level for labelled Drugs of Abuse - Mobile Phase M2	4 x 500 ml
	SC1006U	Calibrator in urine for Labelled Drugs of Abuse Screening	4 x 1 ml
	SC1009U	Control in urine for Labelled Drugs of Abuse Screening - Levels 1 and 2	2 x 5 x 1 ml
	SC1006H	Calibrator in hair for Labelled Drugs of Abuse Screening	1 x 1000 mg/ 1 x 3 x 0,5 ml
	SC1009H	Control in hair for Labelled Drugs of Abuse - Levels 1 and 2	1 x 1500 mg/ 1 x 3 x 0,4 ml/ 1 x 25 ml
	SC1006B	Calibrator in whole blood for Labelled Drugs of Abuse Screening	4 x 1 ml
	SC1009B	Control in whole blood for Labelled Drugs of Abuse Screening - Levels 1 and 2	2 x 5 x 1 ml
	Z1636/26	10 ml Pyrex tubes with cap SWL (for hydrolysis, till 300°C-washable and reusable)	1 x 40 Pcs
	L-30-210	Eppendorf Tubes by 1,5 ml with caps	1 x 1000 Pcs
	S51843550	Clear glass vials with reduced volume goblet form from 15 µl to 1,5 ml	1 x 100 Pcs
	S51820717	Caps for glass vials with reduced volume goblet form from 15 µl to 1,5 ml and for amber vials	1 x 100 Pcs
	TF25402052130	Hypersil GOLD PFP Analytical column ~ 1000 injections (50 x 2,1 mm -1,9 µm)	1 Pc



pro training

A S S I S T A N C E

It is the **ONLY** Professional Path that provides Training and Assistance to laboratory staff During and After the Kit Adoption.

What is “PRO-TRAINING Assistance”?



Sold by our distributors to our customers Pro-Training is the **ONLY** Professional Support Package that provides Training and Assistance to laboratory staff During and After the Adoption of Eureka Kits.

Trained specialists will lead the customers through **3 phases**

■ PHASE I (theoretical-practical training)



FIRST DAY - THEORY

- Biochemical and pathophysiological summaries of molecules, description of the kit content and analytical performance.
- Explanation of sample preparation, injection into the chromatograph, calibration and reporting mode.
- Discussion of the critical issues encountered in routine work

FOLLOWING DAYS - PRACTICE (approximately 2 daily methods)

A Practical Approach to Methods on ALL CHROMATOGRAPHIC Instruments in Clinical Laboratories or the Instruments we provide.

The preparation of real samples begins by injecting into the chromatograph and is concluded with the interpretation of the result.

The Specialist follows all the phases so that the operators can then work autonomously. Reporting, discussion, verification and clarification.

Upon completing phase I, in addition to normal company contacts, Product Specialist will leave his telephone contact, giving technicians the opportunity to contact him in any unexpected circumstance.

■ PHASE II (follow-up/testing)



After completion of the phase I, the Specialist deepens and double-check the functioning of the application package installed. In particular:

- Checking any issues found in the usage of ready-to-use kits.
- Checking the functionality and set-up of the instrument.
- Checking any problems encountered in dosages.
- Helping with the interpretation of the chromatograms and possibly assisting with corrective actions.
- Further training in result's interpretation.
- Providing supporting literature.
- Meeting the customer analytical requirements.

For other problems that a clinical laboratory can meet during the course of its activity, we are able to reply within a few hours of the request.

■ PHASE III (after-sales support)



To ensure regular laboratory work, our Specialists are available throughout the period of professional collaboration.

The service is always active thanks to the telephone HELP line and online assistance.

The Specialist continues to be the reference point for any advanced support assistance:

- For a particular analyte, in case of values outside the reference range, the Specialist will provide support in the interpretation of the data from a clinical and/or toxicological point of view allowing the operator to report safely.
- In case of anomalies of the Chromatographic system (air inlet, overpressure, excessive dirt etc.), the Specialist is able to recommend trouble shooting actions to recover work quickly and safely.
- In case the customer is interested in acquiring new products, the Specialist is able to offer the best and most effective solution (e.g. adopting a massive kit, anticipating automation, etc.).
- In any other problematic situation in the lab...

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General Sales Conditions

EXTRACT OF GENERAL SALES CONDITIONS

- Delivery terms: ex works.
- We will apply the valid prices on receipt of the goods unless otherwise specified.
- The goods are always transported at complete risk of the purchaser.
- The seller offers no guarantee concerning the use of the goods and, therefore, no responsibility could be attributed to the seller and no compensation could be required.
- The seller therefore neither accepts responsibility nor offers compensation.
- Eureka reserves the right to change item characteristics without notice provided that the intended use remains the same.
- Any non compliance has to be sent to the seller within 5 working days from the reception of the good.

RETURNS FOR NO CONFORMING PRODUCT

- Products returns are only accepted with prior authorization.
- The Customer must submit a written claim to our sales department.
- After authorization the Customer should include with the Returned product and shipping paper a note that explains the reason for the return, the name of the product, its code and the number of the shipping document or invoice.
- Any material returned without the appropriate RMA (Return Material Authorization) will be given back to the sender with charges to be paid by the customer.

RETURNS FOR NO CONFORMING SHIPMENT

- We suggest our customers check the integrity of the packaging on receipt of the goods.
- If part of the received package or the whole package should be damaged, we suggest our customer to report immediately on the delivery note.



eureka kit

Produced by



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