

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-13256-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 23.07.2020

Date of issue: 23.07.2020

Holder of certificate:

MVZ Labor Krone GbR
Siemensstraße 40, 32105 Bad Salzuflen

Tests in the field:

Forensics

Testing areas:

Forensic alcoholology
Forensic toxicology, including determination of fitness to drive

Within the given testing field marked with **, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS the modification, development and refinement of testing methods. The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>

Testing area: Forensic alcoholology

Type of testing: Absorption spectrometry/photometry **

Analyte (indicator measured)	Substance tested	Testing technique
Alcohol (ethanol)	Serum, plasma	Photometric colour test

Type of testing: Gas chromatography**

Analyte (indicator measured)	Substance tested	Testing technique
Alcohol (ethanol)	Blood, serum, plasma	GC headspace

Testing area: Forensic toxicology, including determination of fitness to drive

Type of testing: Immunochemical methods**

Analyte (indicator measured)	Substance tested	Testing technique
Amphetamines	Plasma, serum	Enzyme Linked Immunosorbent Assay
Amphetamines	Hair, urine	Enzyme Linked Immunosorbent Assay
Benzodiazepines	Plasma, serum	Enzyme Linked Immunosorbent Assay
Benzodiazepines	Hair, urine	Enzyme Linked Immunosorbent Assay
Cannabinoids	Plasma, serum	Enzyme Linked Immunosorbent Assay
Cannabinoids	Hair, urine	Enzyme Linked Immunosorbent Assay
Cocaine	Plasma, serum	Enzyme Linked Immunosorbent Assay
Cocaine (benzoylecgonine)	Hair, urine	Enzyme Linked Immunosorbent Assay
Ethylglucuronide (EtG)	Urine	Cloned enzyme donor immunoassay

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Analyte (indicator measured)	Substance tested	Testing technique
Methadone	Plasma, serum	Enzyme Linked Immunosorbent Assay
Methadone	Hair, urine	Enzyme Linked Immunosorbent Assay
Opiates	Plasma, serum	Enzyme Linked Immunosorbent Assay
Opiates	Hair, urine	Enzyme Linked Immunosorbent Assay
Tricyclic antidepressants	Plasma, serum	Enzyme Linked Immunosorbent Assay

Type of testing: Gas chromatography (GC-MS)**

Analyte (indicator measured)	Substance tested	Testing technique
11-Hydroxy- Δ -9-tetrahydrocannabinol (OH-THC)	Plasma, serum	GC mass spectrometry
Δ -9-tetrahydrocannabinol (THC)	Plasma, serum	GC mass spectrometry
11-Nor- Δ -9-tetrahydrocannabinol-9-carboxylic acid (THC-COOH)	Plasma, serum, urine	GC mass spectrometry
6-MAM	Plasma, serum	GC mass spectrometry
Amphetamine	Plasma, serum, urine	GC mass spectrometry
Benzoyllecgonine	Plasma, serum, urine	GC mass spectrometry
Cocaine	Plasma, serum, urine	GC mass spectrometry
Codeine	Plasma, serum	GC mass spectrometry
Dihydrocodeine	Plasma, serum	GC mass spectrometry
Ethylglucuronide	Hair	GC mass spectrometry
General Unknown Screening (Pfleger/Maurer/Weber-Library)	Plasma, serum, urine	GC mass spectrometry
MBDB	Plasma, serum	GC mass spectrometry
MDA	Plasma, serum, urine	GC mass spectrometry
MDE	Plasma, serum, urine	GC mass spectrometry

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Analyte (indicator measured)	Substance tested	Testing technique
MDMA	Plasma, serum, urine	GC mass spectrometry
Metamphetamine	Plasma, serum, urine	GC mass spectrometry
Morphine	Plasma, serum	GC mass spectrometry
γ-Hydroxybutyric acid	Serum, urine	GC mass spectrometry

Type of testing: Liquid chromatography (LC-MS)**

Analyte (indicator measured)	Substance tested	Testing technique
3-OH-Bromazepam	Urine	LC-tandem mass spectrometry
6-MAM	Hair, saliva, urine	LC-tandem mass spectrometry
7-Aminoflunitrazepam	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
9-Tetrahydrocannabinol (THC)	Hair, saliva	LC-tandem mass spectrometry
Alprazolam	Hair, plasma, serum, saliva	LC-tandem mass spectrometry
Amphetamine	Hair, saliva	LC-tandem mass spectrometry
Barbiturate	Plasma, serum	LC-tandem mass spectrometry
Benzoylcegonine	Hair, saliva	LC-tandem mass spectrometry
Bromazepam	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Buprenorphine	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Clobazam	Plasma, serum	LC-tandem mass spectrometry
Clonazepam	Plasma, serum, saliva	LC-tandem mass spectrometry
Cocaethylene	Hair	LC-tandem mass spectrometry
Cocaine	Hair, saliva	LC-tandem mass spectrometry
Codeine	Hair, saliva, urine	LC-tandem mass spectrometry
Desalkylflurazepam	Plasma, serum	LC-tandem mass spectrometry
Desmethyloclobazam	Plasma, serum	LC-tandem mass spectrometry
Desmethylflunitrazepam	Plasma, serum	LC-tandem mass spectrometry
Desmethyltramadol	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Diazepam	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Dihydrocodeine	Hair, saliva, urine	LC-tandem mass spectrometry
EDDP	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Ethylglucuronide (EtG)	Hair	LC-tandem mass spectrometry
Ethylglucuronide (EtG)	Plasma, serum, urine	LC-tandem mass spectrometry

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Analyte (indicator measured)	Substance tested	Testing technique
Fentanyl	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Flunitrazepam	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Flurazepam	Plasma, serum	LC-tandem mass spectrometry
General unknown screening (approx. 1100 individual substances as per Waters toxicology Library)	Plasma, serum, urine	Quadrupole Time-of-Flight (Q-TOF) LCMS
General unknown screening (as per Pragst Library)	Plasma, serum, urine	High Performance Liquid Chromatography
Hydroxalprazolam	Plasma, serum, urine	LC-tandem mass spectrometry
Ketamine	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Lorazepam	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Lormetazepam	Plasma, serum	LC-tandem mass spectrometry
Lysergic acid diethylamide	Plasma, serum, urine	LC-tandem mass spectrometry
MDA	Hair, saliva	LC-tandem mass spectrometry
MDE	Hair, saliva	LC-tandem mass spectrometry
MDMA	Hair, saliva	LC-tandem mass spectrometry
Metamphetamine	Hair, saliva	LC-tandem mass spectrometry
Methadone	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Methylphenobarbital	Plasma, serum	LC-tandem mass spectrometry
Midazolam	Plasma, serum	LC-tandem mass spectrometry
Morphine	Hair, saliva, urine	LC-tandem mass spectrometry
Nitrazepam	Plasma, serum	LC-tandem mass spectrometry
Norbuprenorphine	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Norcocaine	Hair, saliva	LC-tandem mass spectrometry
Nordiazepam	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Norfentanyl	Plasma, serum, saliva, urine	LC-tandem mass spectrometry
Nortilidine	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Oxazepam	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Oxycodone	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Pentobarbital	Plasma, Serum	LC-tandem mass spectrometry
Phenobarbital	Plasma, Serum	LC-tandem mass spectrometry

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Analyte (indicator measured)	Substance tested	Testing technique
Synthetic cannabinoides (AB-001, AM-694, JWH-007, JWH-015, JWH-018, JWH- 019, JWH-081, JWH-122, JWH-200, JWH-203, JWH- 210, RCS-4)	Plasma, Serum	LC-tandem mass spectrometry
Synthetic cannabinoides (Metabolites of AM-694, JWH-018, JWH-019, JWH- 073, JWH-081, JWH-122, JWH-200, JWH-203, JWH- 210, JWH-250, RCS-4, UR- 144)	Urine	LC-tandem mass spectrometry
Temazepam	Plasma, serum	LC-tandem mass spectrometry
Tetrazepam	Plasma, serum	LC-tandem mass spectrometry
Thiopental	Plasma, serum	LC-tandem mass spectrometry
Tilidine	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Tramadol	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Zaleplon	Hair, saliva, urine	LC-tandem mass spectrometry
Zolpidem	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry
Zopiclone	Hair, plasma, serum, saliva, urine	LC-tandem mass spectrometry

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