

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-ML-13176-01-00 according to DIN EN ISO 15189:2014

Valid from: 19.09.2018

Date of issue: 08.10.2020

Holder of certificate:

**MVZ Labor Dr. Limbach & Kollegen GbR
Im Breitspiel 16, 69126 Heidelberg**

Examinations in the field:

Medical Laboratory Diagnostics

Medical laboratory fields:

Clinical chemistry

Immunology

Human genetics (molecular human genetics, cytogenetics)

Mikrobiologie

Virology

Transfusion medicine/immunohaematology

Within the given type of examination marked with *), the medical laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the free choice of standards or equivalent examination procedures.

Within the given type of examination marked with **), the medical laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the modification, development and refinement of examination procedures. The listed examination procedures are exemplary.

The medical laboratory maintains a current list of all examination procedures within the flexible scope of accreditation.

*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>*

Test area: Clinical chemistry
(including endocrinology, clinical toxicology)

Type of test:

Chromatography (liquid chromatography-mass spectrometry (LC-MS))**

Analyte (measurand)	Test material (matrix)	Test technique
17-hydroxy-progesterone	Serum / Plasma	LC MS-MS
3-OH-itraconazole	Serum / Plasma / Urine	LC MS-MS
4-aminosalicylic acid	Serum / Plasma / Urine	LC MS-MS
5-fluorocytosine	Serum / Plasma / Urine	LC MS-MS
5-hydroxyindoleacetic acid	Urine	LC MS-MS
9-OH-risperidone	Serum / Plasma	LC MS-MS
Abacavir	Serum / Plasma / Urine	LC MS-MS
Acylcarnitine	Serum / Plasma / Whole blood	LC MS-MS
Adrenaline	Urine	LC MS-MS
Agomelatine	Serum / Plasma / Urine	LC MS-MS
Allopurinol	Serum / Plasma / Urine	LC MS-MS
Alprazolam	Serum / Plasma	LC MS-MS
Amino acid differentiation	Serum / Plasma / Urine	LC MS-MS
Amisulpride	Serum / Plasma / Urine	LC MS-MS
Amitriptyline	Serum / Plasma	LC MS-MS
Amoxicillin	Serum / Plasma / Urine	LC MS-MS
Amphotericin B	Serum / Plasma / Urine	LC MS-MS
Amprenavir	Serum / Plasma / Urine	LC MS-MS
Androstenedione	Serum	LC MS-MS
Anidulafungin	Serum / Plasma / Urine	LC MS-MS
Aripiprazole	Serum / Plasma / Urine	LC MS-MS
Asymmetric dimethylarginine (ADMA)	Serum / Plasma	LC MS-MS
Symmetric dimethylarginine (SDMA)	Serum / Plasma	LC MS-MS
Atazanavir	Serum / Plasma / Urine	LC MS-MS
Atenolol	Serum / Plasma / Urine	LC MS-MS
Atomoxetine	Serum / Plasma / Urine	LC MS-MS
Azathioprine	Serum / Plasma / Urine	LC MS-MS
Baclofen	Serum / Plasma / Urine	LC MS-MS
Benperidol	Serum / Plasma / Urine	LC MS-MS
Confirmatory assay cannabinoids	Serum / Urine / Bodily fluids	LC MS-MS
Confirmatory assay methadone	Serum / Urine / Bodily fluids	LC MS-MS
Biperiden	Serum / Plasma / Urine	LC MS-MS
Bisoprolol	Serum / Plasma / Urine	LC MS-MS
Bromazepam	Serum / Plasma	LC MS-MS

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Analyte (measurand)	Test material (matrix)	Test technique
Bromoperidol	Serum / Plasma / Urine	LC MS-MS
Bupropion	Serum / Plasma / Urine	LC MS-MS
Caspofungin	Serum / Plasma / Urine	LC MS-MS
Ceftazidime	Serum / Plasma / Urine	LC MS-MS
Quinidine	Serum / Plasma / Urine	LC MS-MS
Chlordiazepoxide	Serum / Plasma	LC MS-MS
Chlorpropamide	Serum / Plasma / Urine	LC MS-MS
Chlorpropamide	Serum / Urine	LC MS-MS
Chlorprothixenes	Serum / Plasma / Urine	LC MS-MS
Ciprofloxacin	Serum / Plasma / Urine	LC MS-MS
Citalopram	Serum / Plasma / Urine	LC MS-MS
Clindamycin	Serum / Plasma / Urine	LC MS-MS
Clobazam	Serum / Plasma	LC MS-MS
Clomipramine	Serum / Plasma	LC MS-MS
Clonazepam	Serum / Plasma	LC MS-MS
Clorazepate (nordiazepam)	Serum / Plasma	LC MS-MS
Clozapine	Serum / Plasma	LC MS-MS
Caffeine	Serum / Plasma / Urine	LC MS-MS
Cortisol	Urine	LC MS-MS
Cotinine	Serum / Urine	LC MS-MS
Cyclosporine	EDTA whole blood	LC MS-MS
Daptomycin	Serum / Plasma / Urine	LC MS-MS
Demoxepam	Serum / Plasma	LC MS-MS
Desipramine	Serum / Plasma	LC MS-MS
Desmethylclobazam	Serum / Plasma	LC MS-MS
Desmethylclozapine	Serum / Plasma	LC MS-MS
Desmethyldiazepam / Nordiazepam	Serum / Plasma	LC MS-MS
Desmethyltramadol	Serum / Plasma / Urine	LC MS-MS
Desmethyltrimipramine	Serum / Plasma	LC MS-MS
Desmethylvenlafaxine	Serum / Plasma / Urine	LC MS-MS
DHEA (dehydroepiandrosterone)	Serum / Plasma	LC MS-MS
Diazepam	Serum / Plasma	LC MS-MS
Dibenzepine	Serum / Plasma	LC MS-MS
Diclofenac	Serum / Plasma / Urine	LC MS-MS
Disopyramide	Serum / Plasma / Urine	LC MS-MS
Dopamine	Urine	LC MS-MS
Doxepine	Serum / Plasma	LC MS-MS
Doxycyline	Serum / Plasma / Urine	LC MS-MS
Dronedarone	Serum / Plasma / Urine	LC MS-MS
Duloxetine	Serum / Plasma / Urine	LC MS-MS

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Analyte (measurand)	Test material (matrix)	Test technique
EDDP	Serum / Plasma / Urine	LC MS-MS
Efavirenz	Serum / Plasma / Urine	LC MS-MS
Escitalopram	Serum / Plasma / Urine	LC MS-MS
Ethambutol	Serum / Plasma / Urine	LC MS-MS
Ethyl glucuronide	Serum / Plasma / Urine	LC MS-MS
Everolimus	EDTA whole blood	LC MS-MS
Felbamate	Serum / Plasma / Urine	LC MS-MS
Fenofibrate	Serum / Plasma / Urine	LC MS-MS
Fentanyl	Urine	LC MS-MS
Fentanyl	Serum	LC MS-MS
Flecainide	Serum / Plasma / Urine	LC MS-MS
Fluconazole	Serum / Plasma / Urine	LC MS-MS
Flunitrazepam	Serum / Plasma	LC MS-MS
Fluoxetine	Serum / Plasma	LC MS-MS
Flupentixol	Serum / Plasma / Urine	LC MS-MS
Fluphenazine	Serum / Plasma / Urine	LC MS-MS
Flurazepam	Serum / Plasma	LC MS-MS
Fluvoxamine	Serum / Plasma / Urine	LC MS-MS
Gabapentin	Serum / Plasma / Urine	LC MS-MS
Glibenclamide	Serum / Urine	LC MS-MS
Glibenperopamide	Serum / Plasma / Urine	LC MS-MS
Gliclazide	Serum / Plasma / Urine	LC MS-MS
Gliclazide	Serum / Urine	LC MS-MS
Glimepiride	Serum / Plasma / Urine	LC MS-MS
Glimepiride	Serum / Urine	LC MS-MS
Glipizide	Serum / Plasma / Urine	LC MS-MS
Glipizide	Serum / Urine	LC MS-MS
Gliquidone	Serum / Urine	LC MS-MS
Gliquidone	Serum / Plasma / Urine	LC MS-MS
Haloperidol	Serum / Plasma / Urine	LC MS-MS
Homovanillic acid	Urine	LC MS-MS
Imatinib	Serum / Plasma / Urine	LC MS-MS
Imipramine	Serum / Plasma	LC MS-MS
Indinavir	Serum / Plasma / Urine	LC MS-MS
INH (isoniacide)	Serum / Plasma / Urine	LC MS-MS
Isoptin (verapamil)	Serum / Plasma / Urine	LC MS-MS
Itraconazole	Serum / Plasma / Urine	LC MS-MS
Catecholamine	Urine	LC MS-MS
Ketazolam	Serum / Plasma	LC MS-MS
Lacosamide	Serum / Plasma / Urine	LC MS-MS
Lamivudine	Serum / Plasma / Urine	LC MS-MS

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Analyte (measurand)	Test material (matrix)	Test technique
Leflunomide	Serum / Plasma / Urine	LC MS-MS
Levetiracetam	Serum / Plasma / Urine	LC MS-MS
Levofloxacin	Serum / Plasma / Urine	LC MS-MS
Levomepromazine	Serum / Plasma / Urine	LC MS-MS
Lidocaine	Serum / Plasma / Urine	LC MS-MS
Linezolid	Serum / Plasma / Urine	LC MS-MS
Lisuride	Serum / Plasma / Urine	LC MS-MS
Lorazepam	Serum / Plasma	LC MS-MS
Lormetazepam	Serum / Plasma	LC MS-MS
LSD	Serum / Plasma / Urine	LC MS-MS
Maprotiline	Serum / Plasma	LC MS-MS
Medazepam	Serum / Plasma	LC MS-MS
Mefloquine	Serum / Plasma / Urine	LC MS-MS
Melperone	Serum / Plasma / Urine	LC MS-MS
Metanephrine	Urine	LC MS-MS
Methaqualone	Serum / Plasma / Urine	LC MS-MS
Methadone	Serum / Plasma / Urine	LC MS-MS
Methotrexate	Serum / Plasma / Urine	LC MS-MS
Methylmalonic acid	Serum / Plasma / Urine	LC MS-MS
Methylphenidate	Serum / Plasma / Urine	LC MS-MS
Methylphenidate	Urine	LC MS-MS
Metoprolol	Serum / Plasma	LC MS-MS
Mexiletine	Serum / Plasma	LC MS-MS
Mianserin	Serum / Plasma / Urine	LC MS-MS
Micafungin	Serum / Plasma / Urine	LC MS-MS
Miconazole	Serum / Plasma / Urine	LC MS-MS
Midazolam	Serum / Plasma	LC MS-MS
Mirtazapine	Serum / Plasma / Urine	LC MS-MS
Moclobemide	Serum / Plasma / Urine	LC MS-MS
Morphine	Serum / Plasma	LC MS-MS
Moxifloxacin	Serum / Plasma / Urine	LC MS-MS
Mycophenolic acid	Serum / Plasma / Urine	LC MS-MS
Naloxone	Serum / Plasma / Urine	LC MS-MS
Nateglinide	Serum / Urine	LC MS-MS
Nelfinavir	Serum / Plasma / Urine	LC MS-MS
Metanephrine	Plasma	LC MS-MS
Netilmycin	Serum / Plasma / Urine	LC MS-MS
Nevirapine	Serum / Plasma / Urine	LC MS-MS
Nicotinamide	Serum / Plasma	LC MS-MS
Nifedipine	Serum / Plasma / Urine	LC MS-MS
Nitrazepam	Serum / Plasma	LC MS-MS

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Analyte (measurand)	Test material (matrix)	Test technique
Noradrenaline	Urine	LC MS-MS
Norclomipramine	Serum / Plasma	LC MS-MS
Nordoxepine	Serum / Plasma	LC MS-MS
Norfluoxetine	Serum / Plasma / Urine	LC MS-MS
Norfentanyl	Urine	LC MS-MS
Normetanephrine	Urine	LC MS-MS
Nortilidine	Serum / Plasma / Urine	LC MS-MS
Nortriptyline	Serum / Plasma	LC MS-MS
Ofloxacin	Serum / Plasma / Urine	LC MS-MS
OH-tolbutamide	Serum / Plasma / Urine	LC MS-MS
Olanzapine	Serum / Plasma / Urine	LC MS-MS
Opipramol	Serum / Plasma	LC MS-MS
Oxacillin	Serum / Plasma / Urine	LC MS-MS
Oxazepam	Serum / Plasma	LC MS-MS
Paliperidone	Serum / Plasma / Urine	LC MS-MS
Pantothenic acid	Serum / Plasma / Urine	LC MS-MS
Paroxetine	Serum / Plasma / Urine	LC MS-MS
Perampanel	Serum / Plasma / Urine	LC MS-MS
Perazine	Serum / Plasma / Urine	LC MS-MS
Phencyclidine (PCP)	Serum / Plasma / Urine	LC MS-MS
Pipamperone	Serum / Plasma / Urine	LC MS-MS
Posaconazole	Serum / Plasma / Urine	LC MS-MS
Propoxyphene (PPX)	Serum / Plasma / Urine	LC MS-MS
Pregabalin	Urine	LC MS-MS
Promethazine	Serum / Plasma	LC MS-MS
Propafenone	Serum / Plasma	LC MS-MS
Protionamide	Serum / Plasma / Urine	LC MS-MS
Pyrazinamide	Serum / Plasma / Urine	LC MS-MS
Pyrimethamine	Serum / Plasma / Urine	LC MS-MS
Quetiapine	Serum / Plasma / Urine	LC MS-MS
Ramipril	Serum / Plasma / Urine	LC MS-MS
Rapamycin	EDTA whole blood	LC MS-MS
Reboxetine	Serum / Plasma / Urine	LC MS-MS
Repaglinide	Serum / Plasma / Urine	LC MS-MS
Repaglinide	Serum / Urine	LC MS-MS
Retigabine	Serum / Plasma / Urine	LC MS-MS
Ribavirin	Serum / Plasma / Urine	LC MS-MS
Rifabutin	Serum / Plasma / Urine	LC MS-MS
Rifamycin	Serum / Plasma / Urine	LC MS-MS
Rifapentine	Serum / Plasma / Urine	LC MS-MS
Risperidone	Serum / Plasma / Urine	LC MS-MS

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Analyte (measurand)	Test material (matrix)	Test technique
Ritalinic acid	Serum / Plasma / Urine	LC MS-MS
Ritalinic acid	Urine	LC MS-MS
Ritonavir	Serum / Plasma / Urine	LC MS-MS
Rufinamide	Serum / Plasma / Urine	LC MS-MS
Saquinavir	Serum / Plasma / Urine	LC MS-MS
Secobarbital	Serum / Plasma / Urine	LC MS-MS
Seroquel	Serum / Plasma / Urine	LC MS-MS
Serotonin	Serum / Plasma / Urine	LC MS-MS
Sertraline	Serum / Plasma / Urine	LC MS-MS
Sertindole	Serum / Plasma / Urine	LC MS-MS
Sotalol	Serum / Plasma / Urine	LC MS-MS
Stavudine	Serum / Plasma / Urine	LC MS-MS
Sufentanil	Urine	LC MS-MS
Sulfadiazine	Serum / Plasma / Urine	LC MS-MS
Sulfomethoxazole	Serum / Plasma / Urine	LC MS-MS
Sulphonylureas	Serum / Urine	LC MS-MS
Sulpiride	Serum / Plasma / Urine	LC MS-MS
Tacrolimus	EDTA whole blood	LC MS-MS
Temazepam	Serum / Plasma	LC MS-MS
TETRACYCLINE	Serum / Plasma / Urine	LC MS-MS
Tetrazepam	Serum / Plasma	LC MS-MS
Thiamazole	Serum / Plasma / Urine	LC MS-MS
Thiopental	Serum / Plasma / Urine	LC MS-MS
Thioridazine	Serum / Plasma / Urine	LC MS-MS
Tiagabine	Serum / Plasma / Urine	LC MS-MS
Tiapride	Serum / Plasma / Urine	LC MS-MS
Tigecycline	Serum / Plasma / Urine	LC MS-MS
Tilidine	Serum / Plasma / Urine	LC MS-MS
Tolazamide	Serum / Urine	LC MS-MS
Tolbutamide	Serum / Plasma / Urine	LC MS-MS
Tolbutamide	Serum / Urine	LC MS-MS
Topiramate	Serum / Plasma / Urine	LC MS-MS
Tramadol	Serum / Plasma / Urine	LC MS-MS
Tranlycypromine	Serum / Plasma / Urine	LC MS-MS
Trazodone	Serum / Plasma / Urine	LC MS-MS
Triazolam	Serum / Plasma	LC MS-MS
Trifluoperazine	Serum / Plasma / Urine	LC MS-MS
Trimipramine	Serum / Plasma	LC MS-MS
Vanillylmandelic acid	Urine	LC MS-MS
Venlafaxine	Serum / Plasma / Urine	LC MS-MS
Vigabatrin	Serum / Plasma / Urine	LC MS-MS

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Analyte (measurand)	Test material (matrix)	Test technique
Vitamin C	Serum / Urine	LC MS-MS
Vitamin D derivatives	Serum / Plasma	LC MS-MS
Voriconazole	Serum / Plasma / Urine	LC MS-MS
Ziprasidone	Serum / Plasma / Urine	LC MS-MS
Zidovudine	Serum / Plasma / Urine	LC MS-MS
Zolpidem	Serum / Plasma / Urine	LC MS-MS
Zonisamide	Serum / Plasma / Urine	LC MS-MS
Zopiclone	Serum / Plasma / Urine	LC MS-MS
Zuclopenthixol	Serum / Plasma / Urine	LC MS-MS
Confirmatory assay amphetamines	Serum / Urine	LC MS-MS
Confirmatory assay benzodiazepines	Urine	LC MS-MS
Confirmatory assay buprenorphine	Serum / Urine	LC MS-MS
Confirmatory assay cannabinoids	Serum / Urine	LC MS-MS
Confirmatory assay EDDP	Serum / Urine	LC MS-MS
Confirmatory assay LSD	Serum / Urine	LC MS-MS
Confirmatory assay methadone	Serum / Urine	LC MS-MS
Confirmatory assay tricyclic antidepressants	Serum / Urine	LC MS-MS
Confirmation test tetracyclic antidepressants	Urine	LC MS-MS
Ketamine	Serum / Urine	LC MS-MS
Naloxone	Serum / Urine	LC MS-MS
Norketamine	Serum / Urine	LC MS-MS
Oxycodone	Serum / Urine	LC MS-MS
Scopolamine	Serum / Urine	LC MS-MS
Tilidine / Naloxone	Serum / Urine	LC MS-MS
Tramadol	Serum / Urine	LC MS-MS
Zaleplon	Serum / Urine	LC MS-MS
Zolpidem	Serum / Urine	LC MS-MS
Zopiclone	Serum / Urine	LC MS-MS

Type of test:

Chromatography (gas chromatography (GC))**

Analyte (measurand)	Test material (matrix)	Test technique
Acetone	NaF blood / Urine / Serum	GC-FID
Methanol	NaF blood / Urine / Serum	GC-FID
ethyl methyl ketone	NaF blood / Urine / Serum	GC-FID

Type of test:

Chromatography (gas chromatography-mass spectrometry (GC-MS))**

Analyte (measurand)	Test material (matrix)	Test technique
Fatty acids, long chain (C14 - C20)	Serum / Plasma	GC-MS
Fatty acids, very long chain (C22 - C26)	Serum / Plasma	GC-MS
Gamma-butyrolactone	Serum / Plasma / Urine	GC-MS
Gamma-hydroxy butyric acid	Serum / Plasma / Urine	GC-MS
Keto acids	Serum / Plasma / Urine	GC-MS
Organic acids	Serum / Urine	GC-MS
Pantothenic acid	Serum / Plasma	GC-MS
Phytanoic acid	Serum / Plasma	GC-MS
Stiripentol	Serum / Plasma	GC-MS
t,t-muconic acid	Urine	GC-MS

Type of test:

Chromatography (high performance liquid chromatography (HPLC))**

Analyte (measurand)	Test material (matrix)	Test technique
Adrenaline	Plasma	HPLC ECD amperometric
5-S-cysteinyl-dopa	Urine / Plasma	HPLC ECD amperometric
Dopamine	Plasma	HPLC ECD amperometric
Catecholamines	Plasma	HPLC ECD amperometric
Levodopa	Serum / Plasma	HPLC ECD amperometric
Noradrenaline	Plasma	HPLC ECD amperometric
Amiodarone	Serum / Plasma	HPLC UV
Carotenoids	Serum / Plasma	HPLC UV
Carbamazepine epoxide (AED)	Serum / Plasma	HPLC UV
Desethylamiodarone	Serum / Plasma	HPLC UV
Eslicarbazepine	Serum / Plasma	HPLC UV
Ethosuximide	Serum / Plasma	HPLC UV
HbA1c	EDTA / heparin / NaF blood	HPLC UV-VIS
Hippuric acid	Urine	HPLC UV
Ibuprofen	Serum / Plasma	HPLC UV
Lamotrigine (AED)	Serum / Plasma	HPLC UV
Lycopene	Serum	HPLC UV
Mandelic acid	Urine	HPLC UV
Methylhippuric acid	Urine	HPLC UV
Mitotane	Serum / Plasma	HPLC UV
N-desmethyl mesuximide (AED)	Serum / Plasma	HPLC UV
Oxcarbazepine (AED)	Serum / Plasma	HPLC UV
Phenylglyoxylic acid	Urine	HPLC UV
Methylmercaptapurine nucleotides in erythrocytes	EDTA blood	HPLC UV

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Analyte (measurand)	Test material (matrix)	Test technique
Salicylate (ASS)	Serum / Plasma	HPLC UV
Sultiame (AED)	Serum / Plasma	HPLC UV
Thioguanine nucleotides in erythrocytes	EDTA blood	HPLC UV
Vitamin A	Serum / Plasma	HPLC UV
Vitamin E	Serum / Plasma	HPLC UV
Amino acid differentiation	Serum / Plasma / Urine	HPLC fluorescence
Cysteine	Serum / Plasma / Urine	HPLC fluorescence
Homocysteine	Serum / Plasma / Urine	HPLC fluorescence
Malondialdehyde (MDA)	EDTA plasma	HPLC fluorescence
o-cresol	Urine	HPLC fluorescence
Phenol	Urine	HPLC fluorescence
Porphyrins fractionated	Urine	HPLC fluorescence
Pyridinolines	Urine	HPLC fluorescence
Thiopurine methyltransferase	EDTA blood	HPLC fluorescence
Vitamin B1	EDTA blood	HPLC fluorescence
Vitamin B2	Serum / EDTA blood	HPLC fluorescence
Vitamin B6	EDTA blood / Plasma	HPLC fluorescence
Vitamin K	EDTA plasma	HPLC fluorescence

Type of test:

Flow cytometry (including particle property determination) **

Analyte (measurand)	Test material (matrix)	Test technique
Urinary sediment	Urine	Flow cytometry

Type of test:

Electrochemical tests

Analyte (measurand)	Test material (matrix)	Test technique
Calcium	Dialysate	Potentiometry (ISE)
Chloride	Serum / Li-heparin plasma	Potentiometry (ISE)
Chloride	Dialysate	Potentiometry (ISE)
Chloride	Urine	Potentiometry (ISE)
Fluoride	Serum / Urine	Potentiometry (ISE)
Potassium	Serum / Li-heparin plasma	Potentiometry (ISE)
Potassium	Dialysate	Potentiometry (ISE)
Potassium	Urine	Potentiometry (ISE)
Sodium	Serum / Li-heparin plasma	Potentiometry (ISE)
Sodium	Dialysate	Potentiometry (ISE)
Sodium	Urine	Potentiometry (ISE)

Type of test:
Electrophoresis**

Analyte (measurand)	Test material (matrix)	Test technique
CK-isoenzymes	Serum	ELPHO
Protein fraction	Serum	ELPHO (protein electrophoresis)
LDH isoenzymes	Serum	ELPHO
Haemoglobin fraction	EDTA blood	ELPHO (acid haemoglobin electrophoresis)
AP isoenzymes	Serum	EPLHO

Type of test:
Ligand assays**

Analyte (measurand)	Test material (matrix)	Test technique
ADH (antidiuretic hormone)	EDTA plasma	RIA
Angiotensin II	EDTA plasma	RIA
CA 50 (gastrointestinal tract)	Serum / EDTA plasma	RIA
DHT (dihydrotestosterone)	Serum / Plasma	RIA
GAD 65	Serum / Plasma / Cerebrospinal fluid / Puncture specimen	RIA
Glucagon	EDTA plasma	RIA
Histamine	EDTA plasma / urine	RIA
Insulin antibodies	Serum	RIA
Oestrone	Serum / Plasma	RIA
Pancreatic polypeptide (PP)	EDTA plasma	RIA
Parathormone related protein (PTH-rP)	EDTA plasma	IRMA
Procollagen-III-peptide	Serum / Plasma	IRMA
Testosterone, free	Serum	RIA
Trypsin	Serum / Plasma	RIA
VIP (vasoactive intestinal peptides)	EDTA plasma	RIA
25 hydroxy vitamin D	Serum / Plasma	ECLIA
ACTH	EDTA plasma	ECLIA
AFP (alpha-fetoprotein)	Serum / EDTA plasma / Amniotic fluid	ECLIA
AMH (anti-Müller hormone)	Serum / Plasma	ECLIA
Beta HCG	Serum / EDTA / heparin plasma	ECLIA
β-CTx	Serum / Plasma	ECLIA
CA 12-5	Serum / EDTA plasma / Pleural puncture specimen / Ascites	ECLIA
CA 15-3	Serum / Plasma	ECLIA
CA-19-9	Serum / EDTA plasma	ECLIA
CA 72-4	Serum / Plasma	ECLIA
CEA	Serum / Plasma / Cerebrospinal fluid	ECLIA
Cortisol	Serum / EDTA / heparin plasma / Saliva	ECLIA
C-peptide	Serum	ECLIA

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Analyte (measurand)	Test material (matrix)	Test technique
Cyfra 21-1	Serum / Plasma / Pleural puncture	ECLIA
DHEAS	Serum / EDTA plasma	ECLIA
Digitoxin	Serum / Plasma	ECLIA
Digoxin	Serum / EDTA plasma	ECLIA
Ferritin	Serum / Plasma / Cerebrospinal fluid	ECA
Folic acid	Serum / Li-heparin plasma	ECLIA
FSH (follicle stimulating hormone)	Serum / Plasma	ECLIA
FT3	Serum / Plasma	ECLIA
FT4	Serum / Plasma	ECLIA
HCT (human calcitonin)	Serum / Plasma	ECLIA
HE4 (human epididymis protein 4)	Serum / Plasma	ECLIA
Human placental growth factor (PlGF)	Serum	ECLIA
Insulin	Serum / Plasma / Amniotic fluid	ECLIA
LH (luteinizing hormone)	Serum / Plasma	ECLIA
soluble FMS-like tyrosine kinase (sFlt-i)	Serum	ECLIA
Oestradiol, 17-beta	Serum / Plasma	ECLIA
Osteocalcin	Serum / Plasma	ECLIA
Parathyroid hormone intact	Serum / EDTA plasma	ECLIA
proBNP	Serum / Plasma	ECLIA
proGRP (pro-gastrin releasing peptides)	Plasma / Serum	ECLIA
Procalcitonin	Serum / Plasma	ECLIA
Progesterone	Serum / Plasma	ECLIA
Prolactin	Serum / Plasma / Semen	ECLIA
PSA (prostate specific antigen)	Serum / Plasma	ECLIA
PSA, free	Serum / Plasma	ECLIA
PTH intact	Serum / Plasma	ECLIA
S-100B	Serum / Cerebrospinal fluid	ECLIA
SHBG	Serum / Plasma	ECLIA
Testosterone, total	Serum / Plasma	ECLIA
Total P1NP (tP1NP)	Serum / EDTA plasma	ECLIA
Troponin T (hs)	Serum / EDTA / heparin plasma	ECLIA
TSH (thyroid stimulating hormone)	Serum / Plasma	ECLIA
TSH after stress (TRH test)	Serum / Plasma	ECLIA
Vitamin B12	Serum / EDTA / heparin plasma	ECLIA
Aldosterone	EDTA plasma / Serum	CLIA
Aldosterone	Urine	CLIA

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Analyte (measurand)	Test material (matrix)	Test technique
Aldosterone-18-glucuronide	Urine	CLIA
cPSA	Serum / Plasma	CLA
Erythropoietin (EPO)	Serum / heparin plasma	CLIA
Gastrin	Serum / heparin plasma	CLIA
HER2 protein	Serum / Plasma	CLIA
HGH (STH)	Serum / Plasma	CLIA
Homocysteine	Serum / EDTA plasma	CLIA
IGF-1	Serum / Plasma	CLIA
IGF-BP3	Serum / Plasma	CLIA
Renin	EDTA plasma	CLIA
Thymidine kinase (TK)	Serum / EDTA plasma	CLIA
TPA	Serum	CLIA
TNF alpha	Serum / heparin plasma	CLIA
1.25 Vitamin D	Serum / EDTA / heparin plasma	CLA
Acetaminophen (Paracetamol)	Serum / Plasma	CEDIA
Amikacin	Serum / Plasma	CEDIA
Carbamazepine	Serum / Plasma	CEDIA
Gentamicin	Serum / Plasma	CEDIA
Lithium	Serum / Plasma	CEDIA
Paracetamol	Serum / Plasma	CEDIA
Phenobarbital	Serum / Plasma	CEDIA
Phenytoin	Serum / Plasma	CEDIA
Primidone	Serum / Plasma	CEDIA
Theophylline	Serum / Plasma	CEDIA
Tobramycin	Serum / Plasma	CEDIA
Valproic acid	Serum / Plasma	CEDIA
Vancomycin	Serum / Plasma	CEDIA
Alkaline placenta phosphatase (hPLAP)	Serum / Plasma	ELISA
Ostasis (bone AP, BAP)	Serum / Plasma	EIA
Tartrate-resistant acid phosphatase	Serum / Plasma	EIA
Adalimumab (Humira monitoring)	Serum / EDTA plasma	ELISA
Adalimumab (ADA-Humira)	Serum / EDTA plasma	ELISA
Albumin	Stool	ELISA
Alpha 1-antitrypsin	Stool	ELISA
Androstenediol glucuronide	Serum	ELISA
Biotin (vitamin H)	Serum / Plasma	ELISA
Calprotectin	Stool	ELISA
Diamine oxidase (DAO)	Serum / Plasma	ELISA
Elastase 1 (pancreatic elastase 1)	Serum	ELISA
Fetuin A	Serum / Plasma / urine	ELISA

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Analyte (measurand)	Test material (matrix)	Test technique
FGF-23 (C-terminal)	Plasma	ELISA
Haemoglobin	Stool	ELISA
Haemoglobin-haptoglobin complex	Stool	ELISA
HAMA	Serum	ELISA
Infliximab (Remicade monitoring)	Serum / EDTA plasma	ELISA
Infliximab / Remicade (ADA)	Serum / EDTA plasma	ELISA
Inhibin B	Serum / Li-heparin plasma	ELISA
Lactoferrin	Stool	ELISA
Lysozyme	Serum / Urine / Cerebrospinal fluid	ELISA
Neopterin	Serum / Urine / Cerebrospinal fluid / EDTA	ELISA
NTx-desoxypyridinolines	Serum	ELISA
PAI-1	Tissue	ELISA
Pancreatic elastase	Stool	ELISA
Proinsulin	Serum / EDTA / heparin plasma	ELISA
TPS	Serum	ELISA
uPA	Tissue	ELISA
Vitamin D binding protein	Serum	ELISA
Cyclosporine	EDTA whole blood	CEDIA
Holo-transcobalamin	Serum / heparin plasma	MEIA
Chromogranin A (Cg A)	Serum	TRACE
Chromogranin A (Cg A)	Serum	TRACE
Copeptin	Serum / Plasma	TRACE
Thyroglobulin	Serum / EDTA / heparin plasma	TRACE
Thyroglobulin	Serum / EDTA / heparin plasma	TRACE
NSE	Serum / Cerebrospinal fluid / Puncture specimen	TRACE
NSE	Serum / Cerebrospinal fluid / Puncture specimen	TRACE
Prolactin	Serum / Plasma	TRACE
SCC (squamous cell carcinoma antigen)	Serum / Puncture specimen	TRACE
SCC (squamous cell carcinoma antigen)	Serum / Puncture specimen	TRACE
Anti TSH receptor (TRAbs special)	Serum	TRACE

Type of test:

Microscopy**

Analyte (measurand)	Test material (matrix)	Test technique
Urinary sediment	Urine	Bright-field microscopy (without staining)

Type of test:

Osmometry**

Analyte (measurand)	Test material (matrix)	Test technique
Osmolality	Serum / Urine / Dialysate	Cryoscopy

Type of test:

Spectrometry (atom absorption spectrometry (AAS))**

Analyte (measurand)	Test material (matrix)	Test technique
Aluminium	Serum / Plasma / Urine / Dialysis water	AAS
Lead	EDTA / heparin blood	AAS
Calcium	Serum	AAS
Gold	Serum / Urine	AAS
Magnesium	Whole blood	AAS
Selenium	Serum / Plasma	AAS
Zinc	Blood	AAS

Type of test:

Spectrometry (ICP mass spectrometry (ICP-MS))**

Analyte (measurand)	Test material (matrix)	Test technique
Antimony	Urine / Serum / Blood	ICP-MS
Arsenic	Serum / Blood	ICP-MS
Arsenic	Urine	ICP-MS
Barium	Urine / Serum / Blood	ICP-MS
Beryllium	Serum / Plasma / Urine	ICP-MS
Bismuth	Urine / Serum / Blood	ICP-MS
Lead	Blood	ICP-MS
Lead	Urine	ICP-MS
Bromide	Urine	ICP-MS
Cadmium	-Blood	ICP-MS
Cadmium	Urine	ICP-MS
Chromium	Urine	ICP-MS
Chromium	Serum / Blood	ICP-MS
Iron	Urine / Tissue	ICP-MS
Iodide	Urine / Serum	ICP-MS
Cobalt	Serum / Blood	ICP-MS
Cobalt	Urine	ICP-MS
Copper	Urine / Tissue	ICP-MS
Copper	Urine / Tissue	ICP-MS
Copper, relative interchangeable	Serum	ICP-MS
Magnesium	Blood	ICP-MS
Manganese	Serum / Blood	ICP-MS
Manganese	Urine	ICP-MS
Molybdenum	Urine / Serum / Blood	ICP-MS

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Analyte (measurand)	Test material (matrix)	Test technique
Nickel	Serum / Blood	ICP-MS
Nickel	Urine	ICP-MS
Palladium	Serum / Plasma / Urine	ICP-MS
Platinum	Serum	ICP-MS
Platinum	Urine	ICP-MS
Mercury	Blood	ICP-MS
Mercury	Urine / Saliva	ICP-MS
Selenium	Serum / Blood	ICP-MS
Selenium	Urine	ICP-MS
Silver	Urine / Serum / Blood	ICP-MS
Tellurium	Urine / Serum / Blood	ICP-MS
Thallium	Serum / Blood	ICP-MS
Thallium	Urine	ICP-MS
Vanadium	Urine / Serum / Blood	ICP-MS
Zinc	Serum / Blood	ICP-MS
Zinc	Urine / Semen	ICP-MS
Tin	Urine / Serum / Saliva	ICP-MS

Type of test:

Spectrometry (IR spectrometry)**

Analyte (measurand)	Test material (matrix)	Test technique
C13 breath test (Helicobacter pylori)	Breathing air	IR (C13 breath test)
Composition of solid samples	Solid samples (special human material)	FT-IR
Gallstone	Gallstone	FT-IR / Gallstone analysis
Bladder stone	Bladder stone	FT-IR / Gallstone analysis

Type of test:

Spectrometry (nephelometry)**

Analyte (measurand)	Test material (matrix)	Test technique
%CDT	Serum	NEPH
Albumin	Serum / Cerebrospinal fluid	NEPH
Fibronectin	Ascites	NEPH
Haemopexin	Serum	NEPH
Hevylite	Serum	NEPH
Transferrin	Serum / Urine	NEPH

Type of test:
Spectrometry (photometry)**

Analyte (measurand)	Test material (matrix)	Test technique
Acetate	Dialysate	Photometry
Albumin	Serum / Plasma	Photometry
Albumin	Urine	Photometry
Albumin	Puncture specimen / Ascites	Photometry
Albumin	Dialysate	Photometry
Aldolase	Serum / Plasma	Photometry
Alkaline phosphatase	Serum / Plasma	Photometry
Alpha-glucosidase	Semen	Photometry
Formic acid	Urine	Photometry
Ammonia	EDTA / Heparin plasma	Photometry
Alpha-amylase	Urine / Plasma / Dialysate	Photometry
Alpha-amylase	Serum / Plasma	Photometry
Alpha-amylase	Urine	Photometry
Alpha 1-microglobulin	Urine	Photometry
Alpha 2-antiplasmin	Citrate plasma	Photometry
Angiotensin-converting enzyme (ACE)	Serum / Plasma	Photometry
Atypical cholinesterases (dibucaine number)	Serum / Heparin plasma	Photometry
Apixaban	Citrate plasma	Photometry
Bilirubin	Amniotic fluid	Photometry
Bilirubin direct	Serum / Plasma	Photometry
Bilirubin total	Serum / Plasma	Photometry
Bilirubin	Puncture specimen	Photometry
Blood sedimentation	EDTA blood	Photometry
Bromide	Serum / Plasma	Photometry
Calcium	Serum / Heparin plasma	Photometry
Calcium phosphate product	-	Calculation
Corr. calcium according to Husdan	-	Calculation
Calcium	Dialysate	Photometry
Calcium	Urine	Photometry
Calcium-creatinine quotient / U	-	Calculation
Carnitine	Serum / Semen / Urine	Photometry
Chloride	Dialysate / Cerebrospinal fluid	Photometry
Cholesterol total	Serum / Plasma	Photometry
Cholesterol	Puncture specimen / Dialysate	Photometry
Cholinesterase	Serum / Plasma	Photometry
Citrate	Serum / Semen / Plasma / Dialysate	Photometry
Citrate	Urine	Photometry

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Analyte (measurand)	Test material (matrix)	Test technique
CK (creatine kinase) NAC act.	Serum / Plasma	Photometry
CK-MB	Serum / Plasma	Photometry
CO-haemoglobin	EDTA / Heparin blood	Photometry
Cystine	Urine	Photometry
Delta aminolevulinic acid	Urine	Photometry
D-xylose	Blood / Urine	Photometry
D-xylose (after stress)	Blood / Urine	Photometry
Iron	Serum / Plasma	Photometry
Protein	Serum / Plasma	Photometry
Protein	Puncture fluids	Photometry
Protein	Dialysate / Cerebrospinal fluid	Photometry
Ethanol	EDTA plasma / NaF plasma / Urine	Photometry
Fats (total lipids)	Stool	Photometry
Free haemoglobin	Serum / Plasma	Photometry
Fructosamine	Serum / Plasma	Photometry
Fructose	Plasma / Semen / Urine	Photometry
G-6-PDH in erythrocytes	EDTA / heparin / ACD blood	Photometry
Galactose	NaF blood / Urine	Photometry
Bile acids (3-a-OH-)	Serum / plasma / Puncture specimen /	Photometry
Gamma GT (GGT)	Serum / EDTA / Li-heparin plasma	Photometry
Glucose	Serum / Plasma / NaF blood / urine,	Photometry
Glucose	Urine	Photometry
Glucose	Dialysate / Cerebrospinal fluid / Puncture	Photometry
Glutamate dehydrogenase (GLDH)	Serum / EDTA / Li-heparin plasma	Photometry
GOT (ASAT / AST)	Serum / EDTA / Li-heparin plasma	Photometry
GPT (ALAT / ALT)	Serum / EDTA / Li-heparin plasma	Photometry
Uric acid	Serum / EDTA / Li-heparin plasma	Photometry
Uric acid	Puncture specimen	Photometry
Uric acid	Urine	Photometry
Urea	Urine	Photometry
Urea	Serum / EDTA / Li-heparin plasma	Photometry
Urea	Dialysate	Photometry
HBDH (alpha-HBDH)	Serum / EDTA / Li-heparin plasma	Photometry
HDL cholesterol - plus	Serum / EDTA / Li-heparin plasma	Photometry
Creatinine / Jaffé creatinine	Puncture specimen / Dialysate	Photometry
Creatinine / Jaffé creatinine	Serum / Plasma	Photometry
Creatinine / Jaffé creatinine	Urine	Photometry
Clearances / Creatinine and urea	-	Calculation
eGFR formula / MDRD	-	Calculation
Na-creatinine quotient / Urine	-	Calculation
Copper	Serum / Heparin plasma	Photometry

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Analyte (measurand)	Test material (matrix)	Test technique
Lactate	Plasma / Cerebrospinal fluid / Puncture	Photometry
LAP (leucine aminopeptidase)	Serum / Plasma	Photometry
LDH	Serum / Li-heparin plasma	Photometry
LDH	Puncture specimen	Photometry
LDL cholesterol - plus	Serum / Plasma	Photometry
Lipase	Serum / Li-heparin plasma	Photometry
Lipase	Puncture specimen	Photometry
Magnesium	Serum / Li-heparin plasma	Photometry
Magnesium	Dialysate	Photometry
Magnesium	Urine	Photometry
Macroenzymes	Serum	Photometry
Methaemoglobin	EDTA whole blood / Haemolysate	Photometry
β-NAG (N-acetylglucosaminidase)	Urine	Photometry
Orgaran	Citrate plasma	Photometry
Oxalic acid	Urine	Photometry
Pancreatic amylase	Serum / Urine / Plasma	Photometry
Phosphate / Inorganic phosphorus	Serum / Plasma	Photometry
Phosphate / Inorganic phosphorus	Dialysate	Photometry
Phosphate / Inorganic phosphorus	Urine	Photometry
pH value	Urine	Photometry
Porphobilinogen quant.	Urine	Photometry
Protein determination in tissue	Cytosol	Photometry
Pyruvate	Plasma / Cerebrospinal fluid / Urine /	Photometry
Triglycerides	Serum / Plasma	Photometry
Triglycerides	Puncture specimen / dialysate	Photometry
Non-esterified fatty acids (NEFA)	Serum / Plasma	Photometry
Zinc	Serum / Heparin plasma	Photometry
Density / pH value / Leukocytes / Nitrite / Protein / Glucose / Ketone / Urobilinogen / Bilirubin / Blood /	Urine	Photometry
Gamma-hydroxybutyric acid (GHB)	Serum / Urine	Photometry

Type of test:

Spectrometry (turbidimetry)**

Analyte (measurand)	Test material (matrix)	Test technique
Antistreptolysin O	Serum / Plasma	Turbidimetry
Protein	Urine	Turbidimetry
HbA1c	EDTA blood	Immunoturbidimetry
Homocysteine	Serum / Plasma	Turbidimetry
Transferrin	Serum / Plasma	Turbidimetry
Transferrin saturation	-	Calculation

Test area: Clinical chemistry (drug screening)

Type of test:

Chromatography (gas chromatography-mass spectrometry (GC-MS))**

Analyte (measurand)	Test material (matrix)	Test technique
Confirmatory assay barbiturates	Serum / Urine / Other body fluids	GC-MS
Confirmatory assay cocaine	Serum / Urine / Other body fluids	GC-MS
Confirmatory assay opiates (morphine derivatives)	Serum / Urine / Other body fluids	GC-MS
Confirmatory assay phencyclidine	Serum / Urine / Other body fluids	GC-MS
Diclofenac qual.	Serum / Urine / Other body fluids	GC-MS
Diuretics qual.	Serum / Urine / Other body fluids	GC-MS
General unknown analysis (GC-MS)	Serum / Urine / Other body fluids	GC-MS
Ibuprofen qual.	Serum / Urine / Other body fluids	GC-MS
Laxantia qual.	Urine / Other body fluids	GC-MS
Metamizole qual.	Serum / Urine / Other body fluids	GC-MS
Methaqualone	Serum / Urine / Other body fluids	GC-MS
Neuroleptics (phenothiazines)	Serum / Urine / Other body fluids	GC-MS
Paracetamol qual.	Serum / Urine / Other body fluids	GC-MS
Propoxyphene	Serum / Urine / Other body fluids	GC-MS
Salicylate qual.	Serum / Urine / Other body fluids	GC-MS
Single substance detection (GC-MS)	Serum / Urine / Other body fluids	GC-MS
Trichloroethanol (TCE)	Urine	GC-MS

Type of test:

Ligand assays**

Analyte (measurand)	Test material (matrix)	Test technique
Amphetamine semiquant.	Serum / Urine / Plasma	CEDIA
Barbiturates semiquant.	Serum / Urine / Plasma	CEDIA
Benzodiazepines semiquant.	Serum / Urine / Plasma	CEDIA
Buprenorphine semiquant.	Urine	EIA
Cannabinoids semiquant.	Serum / Urine / Plasma	CEDIA

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Analyte (measurand)	Test material (matrix)	Test technique
EDDP (methadone metab.) semiquant.	Urine	CEDIA
Cocaine metabolite semiquant.	Serum / Urine / Plasma	CEDIA
LSD semiquant.	Serum / Urine / Plasma	CEDIA
MAM (6-o-monoacetylmorphine)	Urine	CEDIA
Methadone semiquant.	Serum / Plasma	CEDIA
Morphine derivatives semiquant.	Serum / Urine / Plasma	CEDIA
Phencyclidine semiquant.	Serum / Urine / Plasma	CEDIA
Pregabalin	Urine	EIA
Tricyclic antidepressants semiquant.	Serum / Urine / Plasma	EIA
Creatinine / Jaffé creatinine	Urine (drugs)	Photometry
pH value	Urine (drugs)	Photometry

Test area: Clinical chemistry (haematology and haemostaseology)

Type of test:

Agglutination tests**

Analyte (measurand)	Test material (matrix)	Test technique
Fibrin monomer complex	Citrate plasma	Aggl.

Type of test:

Flow cytometry (including particle property determination) **

Analyte (measurand)	Test material (matrix)	Test technique
Basophils	EDTA blood	
Eosinophils	EDTA blood	
Erythrocytes	EDTA blood	
Haematocrit	-	Calculation
MCH	-	Calculation
MCHC	-	Calculation
RDW	-	Calculation
Leukocytes	EDTA blood	
Lymphocytes	EDTA blood	
MCV	EDTA blood	
Monocytes	EDTA blood	
Neutrophil granulocytes	EDTA blood	
Reticulocytes	EDTA blood	
Reticulocytes absolute	-	Calculation
RET-He	-	Calculation
Thrombocytes	EDTA blood	

Type of test:
Electrophoresis**

Analyte (measurand)	Test material (matrix)	Test technique
Haemoglobin	EDTA blood	ELPHO

Type of test:
Coagulometry**

Analyte (measurand)	Test material (matrix)	Test technique
APC resistance (act. protein C resistance)	Citrate plasma	KOAG
C1 inhibitor	Citrate plasma	KOAG
Dabigatran (Pradaxa)	Citrate plasma	KOAG
Fibrinogen	Citrated whole blood / plasma	KOAG
Fondaparinux (Arixtra)	Citrate plasma	KOAG
Coagulation factor II	Citrate plasma	KOAG
Coagulation factor V	Citrate plasma	KOAG
Coagulation factor VII	Citrate plasma	KOAG
Coagulation factor VIII	Citrate plasma	KOAG
Coagulation factor IX	Citrate plasma	KOAG
Coagulation factor X	Citrate plasma	KOAG
Coagulation factor XI	Citrate plasma	KOAG
Coagulation factor XII	Citrate plasma	KOAG
HIT IgG	Serum / Citrate plasma	CLA
Partial thromboplastin time (PTT)	Citrated whole blood / plasma	KOAG
Plasma thrombin time (TZ)	Citrated whole blood / plasma	KOAG
Protein S activity	Citrate plasma	KOAG
Quick test (thromboplastin time)	Citrated whole blood / plasma	KOAG
INR	-	Calculation

Type of test:
Microscopy**

Analyte (measurand)	Test material (matrix)	Test technique
ALP	Smear of native blood	Microscopic after staining
Basophils	EDTA blood	Microscopic after staining
Eosinophils	EDTA blood	Microscopic after staining
Lymphocytes	EDTA blood	Microscopic after staining
Monocytes	EDTA blood	Microscopic after staining
Segmented neutrophils	EDTA blood	Microscopic after staining
Banded neutrophils	EDTA blood	Microscopic after staining

Type of test:

Chromatography (high performance liquid chromatography (HPLC))**

Analyte (measurand)	Test material (matrix)	Test technique
Zinc protoporphyrin (ZnPP)	EDTA blood	HPLC fluorescence

Type of test: Spectrometry (photometry)**

Analyte (measurand)	Test material (matrix)	Test technique
Antithrombin III activity	Citrate plasma	Photo / chromogenic
Coagulation factor XIII	Citrate plasma	Photo / chromogenic
Protein C activity	Citrate plasma	Photometry
Protein S free	Citrate plasma	Photometry
Rivaroxaban	Citrate plasma	Photo / chromogenic
Anti Xa	Citrate plasma	Photo
Haemoglobin	EDTA blood	Photo
Lupus anticoagulant	Citrate plasma	Photometry

Test area: Immunology

Type of test:

Flow cytometry**

Analyte (measurand)	Test material (matrix)	Test technique
Lymphocyte differentiation	EDTA / Heparin blood	FC
Lymphocyte differentiation	Bronchial lavage	FC
Immunophenotyping of B-lymphatic differentiation antigens	EDTA whole blood	FC
Leukocytes	Puncture specimen / Dialysate / Ascites / Cerebrospinal fluid	FC
HLA B27 antigen	EDTA / heparin / citrated whole blood	FC
ZAP-70 expression	EDTA / Heparin whole blood	FC

Type of test:

Electrophoresis**

Analyte (measurand)	Test material (matrix)	Test technique
Urine proteins	Urine	PAGE
Immunoglobulins in monoclonal gammopathies	Serum	IFE
Isoelectric focusing (oligoclonal bands)	Serum / Cerebrospinal fluid	IEF

Type of test:

Ligand assays**

Analyte (measurand)	Test material (matrix)	Test technique
Autoantibodies targeting acetylcholine receptor	Serum / Plasma	RRA
Autoantibodies targeting double stranded DNA	Serum	RIA
Anti-IA2	Serum / Plasma	RIA
Anti-TSHR (TRAbs)	Serum	ECLIA
Autoantibodies targeting β 2-glycoprotein (IgG/IgM)	Serum / Plasma	EIA
Autoantibodies targeting ENA (extractable nuclear antigens) screening test	Serum	ELISA
Autoantibodies targeting double stranded DNA	Serum / Plasma	ELISA
Autoantibodies targeting glomerular basement membrane (GBM Ab)	Serum / Plasma	EIA
Autoantibodies targeting intrinsic factor	Serum / Plasma	ELISA

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Analyte (measurand)	Test material (matrix)	Test technique
Autoantibodies targeting proteinase 3 (PR3)	Serum / Plasma	ELISA
Anti-titin antibody qual.	Serum / Plasma	ELISA
β -amyloid ₁₋₄₂	Cerebrospinal fluid	EIA
β -amyloid ₁₋₄₀	Cerebrospinal fluid	EIA
Cardiolipin IgG antibodies	Serum / Plasma	EIA
Cardiolipin IgM antibodies	Serum / Plasma	EIA
CCP	Serum / Plasma	ELISA
CH-100	Serum	EIA
Dickkopf 3	Urine	ELISA
Diphtheria toxin IgG quant.	Serum / Plasma	ELISA
Tissue transglutaminase antibodies IgA	Serum / Plasma	ELISA
Tissue transglutaminase antibodies IgG	Serum / Plasma	ELISA
Gliadin IgA	Serum / Plasma	ELISA
Gliadin IgG	Serum / Plasma	ELISA
Histone antibodies (IgG)	Serum / EDTA / Citrate plasma	ELISA
hTAU protein	Cerebrospinal fluid	EIA
IgE allergen-specific	Serum / Plasma	FEIA
IgE total	Serum / Plasma	FEIA
IgE specific (special allergens)	Serum / Plasma	FEIA
IgG specific	Serum / Plasma	ELISA
IgA secretory (sIgA)	Stool	ELISA
NGAL neutrophil-gelatinase-associated lipocalin	Urine	CMIA
Phospho-tau	Cerebrospinal fluid	EIA
Thyroglobulin antibodies (TgAb)	Serum / Plasma	ECLIA
Thyropoxidase antibodies Anti-TPO	Serum / Plasma	ECLIA
Tryptase	Serum / Plasma	FEIA
Myeloperoxidase (MPO) Proteinase 3 (PR3)	Serum	ELISA
SLA / LP antibodies	Serum / Plasma	ELISA
Sperm antibodies	Serum / Plasma	ELISA
ECP (eosinophilic cationic protein)	Serum	FEIA
Circ. immune complexes (C1q-bind.)	Serum	ELISA
Autoantibodies targeting gangliosides	Serum / Plasma / Cerebrospinal fluid	IB

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Analyte (measurand)	Test material (matrix)	Test technique
Autoantibodies targeting ENA (extractable nuclear antigens)	Serum / Plasma	IB
Autoantibodies targeting mitochondrial subforms	Serum	IB
IgG Autoantibodies targeting myositis antigens (Mi-2, Ku, PM-Scl, Jo-1, PL-7, PL-12)	Serum / Plasma	IB
IgG Autoantibodies targeting neuronal antigens	Serum / Plasma / Cerebrospinal fluid	IB
IgG autoantibodies targeting AMA-M2, LKM-1, LC-1, SLA/LP	Serum / Plasma	IB
Immunglobulin E (IgE)	Serum / EDTA / Li-heparin plasma	ECLIA
Interleukin-2 receptor	Serum / Cerebrospinal fluid	CLA
Interleukin-6	Serum / EDTA / heparin plasma / Cerebrospinal fluid	CLA
Autoantibodies targeting alveolar basement membrane	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting connective tissue (reticulin)	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting brush border of the kidney	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting centromeres	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting ENA (extractable nuclear antigens)	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting endomysium (IgA)	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting endomysium (IgG)	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting epidermal basement membrane	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting epidermal intercellular substance	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting exocrine pancreas	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting bile duct epithelium	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting vascular endothelium	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting smooth muscle (ASMA)	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting heart muscle	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting islet cells (ICA)	Serum / EDTA / heparin / citrate plasma	IFT

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Analyte (measurand)	Test material (matrix)	Test technique
Autoantibodies targeting colonic epithelium	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting liver cell membrane (LMA)	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting liver kidney microsomes (LKM)	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting mitochondria (AMA)	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting mitosis spindle apparatus	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting adrenal cortex	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting parietal cells	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting parotid gland	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting PM-1	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting striated muscle	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting ribosomes	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting ribosomal RNP	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting thrombocytes	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting tubular basement membrane	Serum / EDTA / heparin / citrate plasma	IFT
Autoantibodies targeting nuclei (ANA, ANF)	Serum / EDTA / heparin / citrate plasma	IFT
Antineutrophil cytoplasmic antibodies (p- and c-ANCA)	Serum / EDTA / heparin / citrate plasma	IFT

Type of test:

Microscopy

Analyte (measurand)	Test material (matrix)	Test technique
Cell differentiation	BAL	Microscopy

Type of test:

Spectrometry (nephelometry)**

Analyte (measurand)	Test material (matrix)	Test technique
Alpha 2-macroglobulin	Serum / Urine / Cerebrospinal fluid	NEPH
Amyloid A	Serum	NEPH
Anti-streptodornase B	Serum	NEPH
Antithrombin III level	Serum	NEPH
Beta 2-microglobulin	Urine / Cerebrospinal fluid	NEPH
C1 inactivator, prot. chem.	Serum	NEPH
C1q	Serum	NEPH
Immunoglobulin A (IgA)	Serum / Cerebrospinal fluid	NEPH
Immunoglobulin G (IgG)	Serum / Urine / Cerebrospinal fluid	NEPH
Immunoglobulin M (IgM)	Serum / Cerebrospinal fluid	NEPH
Kappa light chains	Serum / Urine	NEPH
Lambda light chains	Serum / Urine	NEPH
Myoglobin	Serum / Urine	NEPH
Plasminogen	Serum	NEPH
Prealbumin	Serum	NEPH
Retinol-binding protein	Serum	NEPH
Alpha 1-acid glycoprotein (orosomuroid)	Serum	NEPH
Beta-trace	Secretion / Urine / Dialysate	NEPH

Type of test:

Spectrometry (photometry)**

Analyte (measurand)	Test material (matrix)	Test technique
Immunoglobulin G (IgG)	Urine	Photometry
von Willebrand factor antigen (vWF Ag)	Citrate plasma	Photometry
von Willebrand factor activity (vWF Ac)	Citrate plasma	Photometry

Type of test:

Spectrometry (turbidimetry)**

Analyte (measurand)	Test material (matrix)	Test technique
Alpha 1-antitrypsin	Serum	Turbidimetry
Apolipoprotein A1	Serum	Turbidimetry
Apolipoprotein B	Serum	Turbidimetry
Beta 2-microglobulin	Serum / Plasma	Turbidimetry
C-reactive protein	Serum / Plasma	Turbidimetry
C3 complement	Serum	Turbidimetry
C4 complement	Serum	Turbidimetry
Caeruloplasmin	Serum	Turbidimetry

Analyte (measurand)	Test material (matrix)	Test technique
CRP sens	Serum	Turbidimetry
Cystatin C	Serum	Turbidimetry
D-Dimer	Citrate plasma	Turbidimetry
Free kappa	Serum / Plasma / Urine	Turbidimetry
Free lambda	Serum / Plasma / Urine	Turbidimetry
Haptoglobin	Serum	Turbidimetry
Immunoglobulin A (IgA)	Serum / EDTA / LI-heparin plasma	Turbidimetry
Immunoglobulin D (IgD)	Serum	Turbidimetry
Immunoglobulin G (IgG)	Serum / EDTA / LI-heparin plasma	Turbidimetry
IgG subclasses (IgG 1, 2, 3, 4)	Serum	Turbidimetry
Immunoglobulin M (IgM)	Serum / EDTA / LI-heparin plasma	Turbidimetry
Lipoprotein (a)	Serum / Plasma	Turbidimetry
Soluble transferrin receptor	Serum	Turbidimetry
Rheumatism factor (Waalser-Rose)	Serum	Turbidimetry

Test area: Human genetics (cytogenetics)

Type of test:

Chromosome analysis*

Analyte (measurand)	Test material (matrix)	Test technique
Chromosome analysis (prenatal, postnatal and leukaemia diagnostics)	Amniotic fluid / Abortion material / Umbilical cord blood (heparinised) / Peripheral venous blood (heparinised) / Newborn blood (heparinised) / Bone marrow aspirate / Chorionic villi	Chromosome analysis, karyotyping
Chromosomal aberration, alterations (prenatal, postnatal and leukaemia diagnostics)	Blood / Bone marrow / amniotic fluid / Chorionic villi / Abortion material	FISH: Leukaemia gene probes Amniotic quick test Centromere-specific probes Microdeletion diagnostics Chromosome painting Telomer/subtelomer FISH

Type of test:

Electrophoresis*

Analyte (measurand)	Test material (matrix)	Test technique
ACHE	Amniotic fluid supernatant	Gel electrophoresis
Fragile X syndrome	DNA fragments	Southern blot
Fragile X syndrome	EDTA whole blood	Hybridisation, extraction process

Test area: Human genetics (human molecular genetics)

Type of test:

Molecular biological tests (amplification procedures)*

Analyte (measurand)	Test material (matrix)	Test technique
Alpha-1 antitrypsin genotyping	EDTA / Citrated blood	PCR
Apolipoprotein E genotyping	EDTA / Citrated blood	PCR
DPD-exon14 skipping mutation	EDTA / Citrated blood	PCR
Factor II / Factor V - Genotype (APC)	EDTA / Citrated blood	PCR
Hereditary hemochromatosis (HFE gene)	EDTA / Citrated blood	PCR
Janus kinase 2 V617F point mutation	Whole blood / bone marrow aspirate	PCR
LCT-13910 C/T- / G22018A dimorphism	EDTA / Citrated blood	PCR
Methylenetetrahydrofolate reductase pos. C677T / 1298	EDTA / Citrated blood	PCR
4G/5G promoter PAI-1 Mutation A844G	EDTA / Citrated blood	PCR
PCA3	Urine	PCR
rsC12979860T dimorphism	EDTA / Citrated blood	PCR
Septin9 gene	EDTA plasma	PCR
bcr-abl translocation (major)	EDTA whole blood / bone marrow aspirate	PCR

Test area: Microbiology

Type of test:

Agglutination tests**

Analyte (measurand)	Test material (matrix)	Test technique
Dyspepsia coli (antigen)	Bacteria cultures	Agglutination test
Escherichia coli K1	Cerebrospinal fluid	Latex agglutination test
Haemophilus influenzae type B	Cerebrospinal fluid	Latex agglutination test
Haemolytic streptococci of the groups A, B, C, D, F, G	Bacteria cultures	Latex agglutination test
Group B haemolytic streptococci	Cerebrospinal fluid	Latex agglutination test
Listeria monocytogenes O1, O4	Bacteria cultures	Agglutination tests
Plasmodium spec.	EDTA blood	Aggl. / Malaria quick test
Meningococci (group: A, B, C, Y, W 135)	Cerebrospinal fluid	Latex agglutination test
Neisseria meningitidis group A, B, C	Bacteria cultures	Agglutination tests
Pneumococci	Bacteria cultures	Latex agglutination test
Pneumococci	Cerebrospinal fluid	Latex agglutination test
Salmonella (antigen)	Bacteria cultures	Agglutination tests
Shigella (antigen)	Bacteria cultures	Agglutination tests
Staphylococcus aureus	Bacteria cultures	Latex agglutination
Staphylococcus spp.	Bacteria cultures	Latex agglutination
Vibrio cholerae	Bacteria cultures	Agglutination tests
Yersinia enterocolitica O3, O9 (antigen)	Bacteria cultures	Agglutination tests
Echinococcus granulosus antibodies	Serum	IHA
Entamoeba histolytica antibodies	Serum	IHA
Antistaphylolysin (ASTL) antibodies	Serum	LA
Aspergillus antibodies	Serum	IHA
Candida	Serum / Cerebrospinal fluid	LA/antigen test (RAMCO)
Cardiolipin	Serum / Plasma	Aggl. / Microflocculation test
Salmonella antibodies	Serum	ELISA
Toxoplasma-IgM antibodies quant.	Serum	ISAGA
Treponema pallidum antibodies	Serum / Plasma / Cerebrospinal fluid	TPPA

Type of test:
Bacterial and fungal sensitivity tests**

Analyte (measurand)	Test material (matrix)	Test technique
Aerobic bacteria	Bacteria culture	Agar diffusion test (EUCAST/CLSI)
Aerobic bacteria	Bacteria culture	E-test (EUCAST/CLSI)
Aerobic gram-negative rods	Bacteria culture	MIC determination (EUCAST/CLSI)
Aerobic gram-positive cocci	Bacteria culture	MIC determination (EUCAST/CLSI)
Anaerobic gram-negative rods	Bacteria culture	Microdilution method as minimum inhibitory concentration (MIC) / break-point method
Anaerobic gram-positive rods	Bacteria culture	Microdilution method as minimum inhibitory concentration (MIC) / break-point method
Haemophilus species	Bacteria culture	β -lactamase formation
Yeasts	Yeast culture	MIC determination
Mollicutes: Mycoplasma hominis, Ureaplasma urealyticum	Liquid cultures	Broth dilution method as single resistance determination / differentiation test, break-point method
Moraxella spp.	Bacteria culture	β -lactamase formation
Neisseria spp.	Bacteria culture	β -lactamase formation
Tuberculosis bacteria	Liquid culture	Single resistance determination according to the modified proportion method
Non-tuberculous mycobacteria	Liquid culture / Bacteria culture	Single resistance determination according to the modified proportion method

Type of test: Precipitation methods

Analyte (measurand)	Test material (matrix)	Test technique
Anti-streptococcal hyaluronidase	Serum	Precipitation

Type of test:
Microbial differentiation / identification / genotyping**

Analyte (measurand)	Test material (matrix)	Test technique
Aerobic gram-negative rods	Bacteria culture	Biochemical
Aerobic gram-positive cocci	Bacteria culture	Biochemical
Aerobic and anaerobic bacteria and yeast fungi	Bacteria culture	Mass spectrometry
Aerobic bacteria	Bacteria culture	Biochemical (orienting)
Bacteria	Bacteria culture	Biochemical (orienting)
Bacillus spp.	Bacteria culture	Biochemical
Campylobacter spp.	Bacteria culture	Biochemical

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Analyte (measurand)	Test material (matrix)	Test technique
Candida albicans	Yeast culture	Biochemical
Corynebacterium spp.	Bacteria culture	Biochemical
ESBL positive Enterobacteriaceae	Bacteria culture	Biochemical
Enterobacteriaceae	Bacteria culture	Biochemical
Gram-negative cocci (obligatory aerobic and optional anaerobic) and Moraxella (Branhamella) catarrhalis	Bacteria culture	Biochemical (orienting), mass spectrometric
Gram-negative rods (obligatory aerobic and optional anaerobic)	Bacteria culture	Biochemical (orienting), mass spectrometric
Gram-positive rods (aerobic and optional anaerobic)	Bacteria culture	Biochemical (orienting), mass spectrometric
Gram-positive cocci (obligatory aerobic and optional anaerobic)	Bacteria culture	Biochemical (orienting), mass spectrometric
Haemophilus spp.	Bacteria culture	Biochemical
Yeasts	Yeast culture	Biochemical
Yeasts	Fungal cultures	Biochemical
Helicobacter pylori	Bacteria culture	Biochemical
Lactobacillus spp.	Bacteria culture	Biochemical
Listeria spp.	Bacteria culture	Biochemical
Methicillin-resistant Staphylococcus aureus (MRSA)	Bacteria culture	Biochemical
Micrococacceae	Bacteria culture	Biochemical
Mollicutes: Mycoplasma hominis, Ureaplasma urealyticum	Liquid culture	Broth dilution method as single resistance determination / differentiation test, break-point method
Moraxella catarrhalis	Bacteria culture	Biochemical
Mycobacteria ssp.	Bacteria culture	Orienting
Neisseria spp.	Bacteria culture	Biochemical
Non-fermenting gram-negative rods	Bacteria culture	Biochemical
Staphylococcaceae	Bacteria culture	Biochemical
Streptococcus pneumoniae	Bacteria culture	Biochemical
Streptococci	Bacteria culture	Biochemical
Vancomycin-resistant enterococci (VRE)	Bacteria culture	Biochemical
Vibrionaceae	Bacteria culture	Biochemical
Bacteria, fungi	Bacteria and fungus cultures	MALDI-TOF-MS

**Type of test:
Cultural tests****

Analyte (measurand)	Test material (matrix)	Test technique
Bacteria	Patient material: a) Primary sterile materials (puncture specimens) b) Primary non-sterile materials, (mucosal swabs)	Enrichment process Non-specific (non-selective) Specific (selective) Germ count determination In aerobic, microaerophilic and/or anaerobic atmosphere
Bacteria	Patient material: a) Primary sterile materials (puncture specimens) b) Primary non-sterile materials (mucosal swabs for specific questions, Legionella detection trichomonads)	Enrichment process Non-specific (non-selective) Specific (selective) In aerobic, microaerophilic and/or anaerobic atmosphere
Bacteria	Nativurine Uricult	Non-specific (non-selective) Specific (selective) Germ count determination In aerobic atmosphere (for specific questions also in microaerophilic and/or anaerobic atmosphere)
Bacteria	Native stool	Enrichment process Non-specific (non-selective) Specific (selective) In aerobic and/or microaerophilic atmosphere (for specific questions also in anaerobic atmosphere and/or at different temperature settings)
Bacteria	Blood cultures	Blood culture process (automated) Enrichment process Non-specific (non-selective) Specific (selective) In aerobic and/or microaerophilic atmosphere (for specific questions also in anaerobic atmosphere)
Bacteria (acid-resistant rods)	Patient material: a) Primary sterile materials (puncture specimens) b) Primary non-sterile materials, sputa, gastric juice samples for specific questions (Tbc detection)	Enrichment process Specific (selective) In aerobic atmosphere (for specific questions also at different temperature settings)

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Analyte (measurand)	Test material (matrix)	Test technique
Dermatophytes	Patient material: a) Primary sterile materials (puncture specimens) b) Primary non-sterile materials, (mucous membrane, skin swabs, hair, nail swab)	Enrichment process Specific (selective) In aerobic atmosphere at different temperature settings
Yeasts	Patient material: a) Primary sterile materials (puncture specimens) b) Primary non-sterile materials, (mucosal swabs, stool)	Enrichment process Specific (selective) In aerobic atmosphere at different temperature settings
Moulds	Patient material: a) Primary sterile materials (puncture specimens) b) Primary non-sterile materials, (mucosal swabs)	Enrichment process Specific (selective) In aerobic atmosphere at different temperature settings

Type of test:

Ligand assays**

Analyte (measurand)	Test material (matrix)	Test technique
Campylobacter jejuni, coli antibodies (IgG, IgA, IgM)	Serum	ELISA
Campylobacter antigen	Stool	ELISA
Campylobacter antibodies (IgA/IgG)	Serum / Plasma	EIA
Clostridium difficile (toxin A + B)	Stool	Enzyme linked immunosorbent assay (ELISA)
Entamoeba histolytica (antigen)	Stool	Enzyme linked immunosorbent assay (ELISA)
Helicobacter pylori (antigen)	Stool	Enzyme linked immunosorbent assay (ELISA)
GDH (glutamate dehydrogenase), Clostridium difficile	Stool	Enzyme linked immunosorbent assay (ELISA)
Giardia lamblia (antigen)	Stool	Enzyme linked immunosorbent assay (ELISA)
Cryptosporidium (antigen)	Stool	Enzyme linked immunosorbent assay (ELISA)
Legionella pneumophila (antigen)	Urine	Enzyme linked immunosorbent assay (ELISA)
Mycobacterium tuberculosis IGRA	Blood	Enzyme linked immunosorbent assay (ELISA)
Haemolytic streptococci group A	Throat swabs	In vitro membrane enzyme immunoassay (MEIA)
Antibodies targeting Treponema	Serum / Plasma	CMIA
Bordetella pertussis IgA antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA
Bordetella pertussis IgG antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA
Bordetella pertussis IgM antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA

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Analyte (measurand)	Test material (matrix)	Test technique
Borrelia burgdorferi IgG antibodies	Serum / Cerebrospinal fluid	ELISA
Borrelia burgdorferi IgM antibodies	Serum / Cerebrospinal fluid	ELISA
Brucella antibodies	Serum	ELISA
Candida albicans antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA
Chlamydia trachomatis IgG / IgA antibodies	Serum / Plasma	EIA
Chlamydia pneumoniae-IgG/-IgM antibodies	Serum / Plasma	EIA
Coxiella burnetii antibodies, phase 1 IgG and IgA, phase 2 IgG and IgM	Serum / Cerebrospinal fluid / Plasma	ELISA
Helicobacter pylori antibodies	Serum / Plasma	EIA
Echinococcus antibodies	Serum	ELISA
Legionella pneumophila IgG-/IgM antibodies	Serum / Plasma	EIA
Legionella antibodies	Serum	ELISA
Leptospira antibodies	Serum	ELISA
Mycoplasma pneumoniae antibodies, IgG, IgM and IgA	Serum, cerebrospinal fluid, plasma	ELISA
Toxoplasma gondii IgG antibodies	Serum / Plasma	CMIA
Toxoplasma gondii IgM antibodies	Serum	CMIA
Yersinia IgA antibodies	Serum / Plasma	ELISA
Yersinia IgG antibodies	Serum / Plasma	ELISA
Yersinien IgM antibodies	Serum / Plasma	ELISA
Borrelia burgdorferi IgG- / IgM	Serum / Plasma / Cerebrospinal fluid	Line IA
Tetanus IgG antibodies quant.	Serum / Plasma	ELISA
Treponema pallidum IgG antibodies	Serum / Plasma	IB
Treponema pallidum-IgM	Serum / Plasma	IB
Anti-toxoplasma IgG avidity	Serum / Plasma	ELFA
Toxoplasma gondii IgG antibodies	Serum / Plasma	ELFA
Toxoplasma gondii IgM antibodies	Serum / Plasma	ELFA
Malaria antibodies	Serum / EDTA / heparin / Citrate plasma	IFT

Type of test:

Microscopy**

Analyte (measurand)	Test material (matrix)	Test technique
Angina Plaut Vincenti	Patient material from the upper respiratory tract	Bright-field microscopy after colouring using stains
Bacteria, yeasts and cells	Patient materials and cultures	Bright-field microscopy after colouring using stains
Bacteria and yeasts	Cultures	Bright-field microscopy (without staining)

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Analyte (measurand)	Test material (matrix)	Test technique
Bacteria, yeasts and cells	Female genital swabs	Bright-field microscopy after colouring using stains
Cryptosporidium	Stool	Fluorescence microscopy (IFT)
Dermatophytes	Culture material	Bright-field microscopy after colouring using stains
Enterobius vermicularis eggs	Anal contact preparation	Bright-field microscopy (without staining)
Giardia lamblia cysts	Native stool	Fluorescence microscopy (IFT)
Plasmodium spec.	EDTA blood	Malaria direct detection Microscopic after staining
Mollicutes: Mycoplasma hominis, Ureaplasma urealyticum	Cultures	Bright-field microscopy (without staining)
Fungal elements	Skin, hair, nails, dander	Bright-field microscopy (without staining)
acid-resistant rods	Patient materials and cultures, in particular sample material from the upper respiratory tract and gastric juice	Bright-field microscopy after colouring using stains
Moulds	Culture material	Bright-field microscopy after colouring using stains
Trichomonas vaginalis	Genital swabs	Enrichment process with subsequent bright-field microscopy (without staining)
Worm eggs	Native stool	Bright-field microscopy after colouring using stains
Worms and worm elements	Parasites or parasitic elements to be differentiated	Bright-field microscopy (without staining)

Type of test:

Molecular biological tests (amplification procedures)**

Analyte (measurand)	Test material (matrix)	Test technique
Mycobacterium tuberculosis complex	Respiratory tract materials	HyBeacon probe with melting curve analysis
Mycobacterium tuberculosis complex	Materials and cultures, in particular sample material from the upper respiratory tract and gastric juice	Real-time PCR
Mycobacterium tuberculosis complex	Bacteria culture	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)

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Analyte (measurand)	Test material (matrix)	Test technique
Mycobacteria other than tuberculosis (MOTT, NTM)	Materials and cultures, in particular sample material from the upper respiratory tract and gastric juice	Real-time PCR
Rifampicin and INH resistance	Bacteria culture	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Staphylococcus aureus (TSST 1 gene = toxic shock syndrome)	Isolates of Staphylococcus aureus	Single round PCR with gel electrophoretic detection of the amplification product
Sepsis pathogen	Blood culture, bacterial material	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
S. aureus (MRSA typing)	Isolates of S. aureus	Spa typing
Staphylococcus aureus	Isolates of S. aureus	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
mecA gene	Isolates of S. aureus	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Staphylococcus epidermidis	Isolates of S. aureus	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
PVL (panton-valentin-leucozidin)	Isolates of S. aureus	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Enterohaemorrhagic E. coli (EHEC)	Isolates of E. coli	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Enteropathogenic E. coli (EPEC)	Isolates of E. coli	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Helicobacter pylori	Gastric PE	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Clarithromycin resistance in H. pylori	Gastric PE	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Gyrase inhibitor resistance in H. pylori	Gastric PE	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Corynebacterium diphtheriae	Bacteria culture	Single round PCR with gel electrophoretic detection of the amplification product

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Analyte (measurand)	Test material (matrix)	Test technique
Bordetella pertussis, parapertussis, holmesii	Materials from nasopharynx and nasal lavages	Real-time PCR
Chlamydia pneumoniae	Bronchopulmonary material, cerebrospinal fluid	Real-time PCR
Chlamydia trachomatis DNA	Urine / Ejaculate / Cervical smear	PCR
Cryptosporidium parvum	Native stool	Real-time PCR
Dientamoeba fragilis	Native stool	Real-time PCR
Giardia lamblia	Native stool	Real-time PCR
EAEC	Native stool / Culture material	Real-time PCR
Entamoeba histolytica	Native stool	Real-time PCR
ETEC / EIEC	Native stool / Culture material	Real-time PCR
Legionella pneumophila	Bronchopulmonary material	Real-time PCR
Mycoplasma pneumoniae	Bronchopulmonary material, cerebrospinal fluid	Real-time PCR
Neisseria gonorrhoeae DNA	Urine / Ejaculate / Cervical smear	PCR
Pneumocystis jiroveci	Bronchopulmonary material Sample excision material	Real-time PCR
Tropheryma whipplei	Intestinal biopsy Cerebrospinal fluid EDTA whole blood	Real-time PCR
Bacillus anthracis	Bacteria culture	Real-time PCR
Bordetella pertussis	Nasal swabs Throat swabs Aspiration secretions	Real-time PCR
Bordetella pertussis	Nasal swabs Throat swabs Aspiration secretions	Dipstick PCR assay
Bordetella parapertussis	Nasal swabs Throat swabs Aspiration secretions	Dipstick PCR assay
Fungal DNA	Fungal isolates	Single round PCR assay
MRSA	Direct detection from clinical material	Real-time PCR
MRSA	Direct detection from clinical material	Real-time PCR
Carbapenemase genes	Bacteria culture	Single round PCR with gel electrophoretic detection of the amplification product
Van gene (vanA, vanB, vanC1, vanC2/3)	Isolates of Enterococcus spp.	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)
Van gene (vanA, vanB)	Rectal and perianal swabs	Real-time PCR
Enterococcus spp. (E. faecalis, E. faecium, E. casseliflavus, E. gallinarum)	Isolates of Enterococcus spp.	Reverse hybridisation assay with upstream polymerase chain reaction (PCR)

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Analyte (measurand)	Test material (matrix)	Test technique
Borrelia burgdorferi-DNA	Cerebrospinal fluid, EDTA blood, biopsy, puncture specimen, tick	PCR
Germs associated with periodontitis	Swab	PCR
Clostridium difficile toxin A/B (tcdA/tcdB gene)	Stool	Real-time PCR
Clostridium difficile toxin A/B	Stool	Real-time PCR
Bacteria	Patient materials and cultures	Real-time PCR Sequencing
Fungi	Patient materials and cultures	Real-time PCR Sequencing

Test area: Virology (including infectious disease serology, molecular biology in virology)

Type of test:

Ligand assays**

Analyte (measurand)	Test material (matrix)	Test technique
Adenovirus (antigen)	Stool	ELISA
Adenovirus-antibodies	Serum / Plasma	ELISA
Astrovirus antigen	Stool	ELISA
Coxsackie antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA
Cytomegaly IgG antibodies	Serum / Cerebrospinal fluid / Plasma	EIA
Cytomegaly IgM antibodies	Serum / Plasma	ELISA
EBV EBNA IgG antibodies	Serum	ELISA
Enterovirus antibodies	Serum	ELISA
Epstein-Barr virus antibodies	Serum / Plasma	Immunoblot
Epstein-Barr VCA IgG antibodies	Serum / Cerebrospinal fluid	ELISA
Epstein-Barr VCA IgM antibodies	Serum / Plasma	ELISA
FSME IgG antibodies	Serum / Cerebrospinal fluid	EIA
FSME IgM antibodies	Serum / Cerebrospinal fluid	EIA
Hantavirus IgG antibodies	Serum / Plasma	Line IA
Hantavirus IgM antibodies	Serum / Plasma	Line IA
HBeAg	Serum / Plasma	EIA
HCV IgG antibodies	Serum / Plasma	Line IA
Hepatitis A antibodies (anti-HAV)	Serum	ECLIA
Hepatitis B-surface antigen (HBsAg)	Serum / Plasma	ECLIA
Hepatitis C virus antibodies (anti-HCV)	Serum / Plasma	ECLIA
Hepatitis A antibodies, IgM class	Serum	ECLIA
Hepatitis B-core antibodies (anti-HBc)	Serum / Plasma	ECLIA
Hepatitis E virus antibodies (IgG, IgM)	Serum / Plasma	ELISA
HIV-1 confirmatory assay	Serum / Plasma	IB
HIV-2 confirmatory assay	Serum / Plasma	IB
HIV p24 / HIV-1- / HIV-2 antibodies	Serum / Plasma	CMIA
HIV p24 / HIV-1- / HIV-2 antibodies	Serum / Plasma	ECLIA
HIV p24 - antigen	Serum / Plasma	EIA
HSV-1/2 antibodies (IgG)	Serum / Cerebrospinal fluid / Plasma	EIA
HSV IgM antibodies	Serum	ELISA
Influenza A2 antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA
Influenza B antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA
Measles virus IgG antibodies	Serum / Cerebrospinal fluid / Plasma	EIA

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Analyte (measurand)	Test material (matrix)	Test technique
Measles virus IgM antibodies	Serum / Plasma	ELISA
Mumps virus IgG antibodies	Serum / Cerebrospinal fluid / Plasma	EIA
Mumps virus IgM antibodies	Serum / Plasma	ELISA
Norovirus	Stool	ELISA
Parainfluenza IgG antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA
Parainfluenza IgA antibodies	Serum / Cerebrospinal fluid / Plasma	ELISA
Parvovirus B19 IgG antibodies	Serum / Plasma	ELISA
Parvovirus B19 IgM antibodies	Serum / Plasma	ELISA
Respiratory syncytial virus antibodies	Serum / Plasma	ELISA
Rotavirus (antigen)	Stool	ELISA
Rubella IgG antibodies	Serum / Plasma	CMIA
Rubella IgM antibodies	Serum / Plasma	CMIA
Sandfly fever virus IgG antibodies	Serum / Plasma	Line IA
Sandfly fever virus IgM antibodies	Serum / Plasma	Line IA
Varizella zoster IgG antibodies	Serum / Cerebrospinal fluid / Plasma	EIA
Varizella zoster IgM antibodies	Serum / Plasma	ELISA
Anti-HAV IgG antibodies	Serum / Plasma	CMIA
Anti-HAV IgM antibodies	Serum / Plasma	CMIA
HBsAg qual.	Serum / Plasma	CMIA
HBsAg qual.	Serum / Plasma	ECLIA
HBsAg quant.	Serum / Plasma	CMIA
Anti-HBs	Serum / Plasma	CMIA
Anti-HBcI	Serum / Plasma	CMIA
Anti-HBc IgM antibodies	Serum / Plasma	CMIA
HBeAg	Serum / Plasma	CMIA
Anti-HBe	Serum / Plasma	CMIA
Anti-HCV antibodies	Serum / Plasma	CMIA
Anti-HCV antibodies	Serum / Plasma	ECLIA
HIV antibodies	Serum / Plasma	CMIA
Rubella antibodies	Serum / Plasma	CMIA
Rubella IgG antibodies	Serum / Plasma	ELFA
Rubella IgM antibodies	Serum	ELFA
Varizella zoster IgG antibodies (quick test)	Serum	ELFA
Hantavirus IgG antibodies	Serum	IFT
Hantavirus IgM antibodies	Serum	IFT

Type of test:

Molecular biological tests (amplification procedures)**

Analyte (measurand)	Test material (matrix)	Test technique
Adenovirus (AdV) DNA	Cerebrospinal fluid / Swabs / Stool / EDTA blood / Biopsies	PCR
Cytomegalovirus DNA	EDTA blood / Urine / Cerebrospinal fluid / Bronchial lavage (BAL) / Biopsy / Sputum / Amniotic fluid	PCR
Enterovirus RNA	Cerebrospinal fluid	PCR
Epstein-Barr virus (EBV) DNA	EDTA plasma / Cerebrospinal fluid / Bronchial lavage / Sputum / Swabs	PCR
Hepatitis B (HBV)-DR	Serum / EDTA / citrated whole blood /	PCR
Hepatitis B virus DNA quant.	Serum / EDTA blood	PCR
Hepatitis C virus genotype	Serum / EDTA blood	PCR + sequencing
Hepatitis C virus RNA qual.	Serum / EDTA blood	PCR
Hepatitis C virus RNA quant.	Serum / EDTA blood	PCR
Herpes-simplex virus type 1 DNA	Cerebrospinal fluid / Swab	PCR
Herpes simplex virus type 2 DNA	Cerebrospinal fluid / Swab	PCR
HIV RNA resistance analysis	EDTA plasma	PCR / Sequencing
HIV RNA	EDTA blood / EDTA / citrate plasma	PCR
HPV DNA high-risk	Swab	PCR
Influenza A virus	Respiratory material	PCR
Influenza A/H1N1 Virus	Respiratory material	PCR
Influenza B virus	Respiratory material	PCR
Influenza viruses	Materials from nasopharynx	rRT PCR
Noroviruses	Stool / Vomit	RT PCR
Noroviruses	Stool	rRT PCR
Parainfluenza viruses	Materials from nasopharynx	Real-time PCR
Parvovirus B19	EDTA plasma / Cerebrospinal fluid / bronchial lavage /	PCR
PO.-889 and -3953 of interleukin 1 gene	Citrate / EDTA blood / spec. swab (respiratory material)	PST plus test
PO.-2018 of interleukin 1 receptor antagonist	Citrate / EDTA blood / spec. swab	PCR PRT test
Polyoma virus DNA	Citrate / EDTA blood / spec. swab	PCR
RSV (respiratory syncytial virus)	Citrate / EDTA blood / spec. swab	Real-time PCR
Varicella (Herpes) zoster virus	Citrate / EDTA blood / spec. swab	PCR

Test area: Transfusion medicine/immunohaematology
(including blood group serology, transfusion serology)

Type of test:

Agglutination tests**

Analyte (measurand)	Test material (matrix)	Test technique
Antibody screening procedure	Serum / Plasma / Whole blood	HA (gel card)
Antibody screening procedure	Serum / EDTA whole blood	HA (solid screen method)
Antibody differentiation	Serum / Plasma / Whole blood	HA (gel card)
Blood group cross-check	EDTA whole blood	HA
Blood group determination (ABO + rhesus formula)	EDTA whole blood	HA (gel card)
Blood group determination (ABO + rhesus formula)	EDTA whole blood	HA (microtiter plate)
Direct Coombs test	EDTA whole blood	HA (tube)
Direct Coombs test	EDTA whole blood	HA (gel card)
Indirect Coombs test	Serum / Plasma / Whole blood	HA (gel card)
Cold antibody	Serum	HA (gel card) Cold antibody screening procedure
Cryoglobulins	Serum	Aggl. (aggregation)
Rhesus factor D	EDTA whole blood	HA
Rhesus formula	EDTA whole blood	HA (gel test)
Rhesus formula	EDTA whole blood	HA (microtiter plate)
Clarification of weak rhesus properties	EDTA whole blood	HA (tube)
Serum cross-check	EDTA whole blood	HA

Type of test:

Molecular biological tests (amplification procedures)**

Analyte (measurand)	Test material (matrix)	Test technique
HLA A, B, C	EDTA blood	PCR
HLA B27 allele	EDTA blood	PCR
HLA DR (HLA DRB1 typing based on DNA)	EDTA blood	PCR