

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-ML-13123-01-00 according to DIN EN ISO/IEC 15189:2014

Period of validity: 17.07.2015 to 16.07.2020

Date of issue: 17.07.2015

Holder of certificate:

**synlab Medizinisches Versorgungszentrum
Leinfelden-Echterdingen GmbH
Max-Lang-Straße 58, 70771 Leinfelden-Echterdingen, Germany**

Tests in the fields:

Medical Laboratory Diagnostics

Test areas:

Clinical chemistry
Immunology
Microbiology
Transfusion medicine
Virology

Types of test:

Agglutination tests
Chromatography (liquid chromatography (LC-MS-MS), gas chromatography (GC, GC-MS), High-performance liquid chromatography (HPLC), Immunochemistry (IC))
Coagulometry
Electrochemical investigation
Electrophoresis
Flow cytometry (including determination of particle properties)

For the test fields marked with * the laboratory is permitted to select standard test procedures or equivalent procedures without obtaining prior notification and consent from the Deutsche Akkreditierungsstelle GmbH (DAkkS GmbH).

For the test fields marked with ** the laboratory is permitted to modify and develop new test procedures without obtaining prior notification and consent from the DAkkS GmbH.

The test procedures are given by way of an example. The laboratory has an up-to-date list of all test procedures within the flexible accreditation range.

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Functional examinations on patients
Germ differentiation/identification/typing
Investigations of culture
Ligand assays
Lysis reactions
Microscopy
Molecular-biological investigations (amplification method)
Osmometry
Qualitative investigations (simple) with visual evaluation
Sedimentation investigation
Sensitivity testing of bacteria, parasites and fungi
Spectrometry (atomic absorption spectrometry (AAS), mass spectrometry (ICP-MS),
turbidimetry/immunoturbidimetry, reflectometry, UV/VIS photometry)

Test area: Clinical chemistry

Type of test:

Agglutination tests*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Lactoferrin	Faeces	Agglutination

Type of test:

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

Analyte (measurement parameter)	Test material (matrix)	Test technique
Fatty acids, C22, C24, C26	Serum	GC-MS

Type of test:

Chromatography (gas chromatography (GC)**

Analyte (measurement parameter)	Test material (matrix)	Test technique
HS Omega3 Index	Erythrocytes from EDTA blood	GC-FID
Myristic acid, palmitic acid, palmitoleic acid, stearic acid, oleic acid, linoleic acid, arachidic acid, gamma-linoleic acid, alpha-linoleic acid, behenic acid, homo-gamma-linoleic acid, arachidonic acid, EPA, DHA	Serum, plasma	GC-FID

Type of test:

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

Analyte (measurement parameter)	Test material (matrix)	Test technique
Acetylsalicylic acid	Serum	HPLC-UV
Adrenaline, noradrenaline, dopamine	Plasma, urine, acidified	HPLC-EC
Albendazole	Serum	HPLC-UV
Amisulpiride	Serum	HPLC-UV
Atomoxetine	Serum	HPLC-DAD
Beta-carotene	Serum, plasma	HPLC
Carbamazepine, carbamazepine epoxide	Serum	HPLC-UV
Carbimazole	Serum	HPLC-DAD
Chlordiazepoxide	Serum	HPLC-UV
Clobazam, desmethylclobazam	Serum	HPLC-UV
Clomethiazole	Serum	HPLC

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Coenzyme Q10	Serum, Plasma	HPLC
Caffeine	Serum	HPLC-UV
Desmethylnesuximide	Serum	HPLC-DAD
Diphenhydramine	Serum	HPLC-UV
Disopyramide	Serum	HPLC-UV
Eslicarbazepine	Serum	HPLC
Ethosuximide	Serum	HPLC-UV
Felbamate	Serum	HPLC-UV
Fluconazole	Serum	HPLC
Furosemide	Serum	HPLC
Glutathione	Whole blood	HPLC
HbA1c	EDTA, citrate CPDA, fluoride and heparin blood	HPLC-UV
Homocysteine	Serum, plasma	HPLC
Ibuprofen	Serum	HPLC-UV
Lacosamide	Serum	HPLC
Lamotrigine	Serum	HPLC-UV
Mebendazole	Serum	HPLC-UV
Mexilitine	Serum	HPLC-UV
Moclobemide	Serum	HPLC-UV
Mycophenolate	Serum, plasma	HPLC-UV
Opipramol	Serum	HPLC-UV
Paracetamol	Serum	HPLC-UV
Phenobarbital	Serum	HPLC-UV
Phenytoin, free phenytoin	Serum	HPLC-UV
Primidone	Serum	HPLC-DAD
Propafenone	Serum	HPLC-UV
Propranolol	Serum	HPLC-UV
Prothipendyl	Serum	HPLC
Retigabine	Serum	HPLC-UV
Rufinamide	Serum	HPLC-DAD
Serotonin	EDTA blood	HPLC-FL
Sotalol	Serum	HPLC-FL
Stiripentol	Serum	HPLC
Sulfamethoxazole	Serum	HPLC-UV
Sulphapyridine	Serum	HPLC-UV
Sulphasalazine	Serum	HPLC-UV
Sultiame	Serum	HPLC-UV
Theophylline	Serum	HPLC-UV

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Trazodone	Serum	HPLC-UV
Trimetoprim	Serum	HPLC-UV
Uroporphyrin, heptacarboxy-, hexacarboxy-, pentacarboxy-coproporphyrin	Urine	HPLC-FL
Verapramil	Serum	HPLC-FL
Vitamin A, vitamin E	Serum, plasma	HPLC-UV
Vitamin B1	EDTA	HPLC-FL
Vitamin B1	EDTA, heparin	HPLC-FL
Vitamin B2	EDTA	HPLC-FL
Vitamin B2	EDTA, heparin	HPLC-FL
Vitamin B6	EDTA	HPLC-FL
Vitamin B6	EDTA, heparin	HPLC_FL
Vitamin C	EDTA	HPLC-DAD
Vitamin C	Heparin plasma	HPLC_UV
Vitamin K1	Serum, plasma	HPLC
VMA, HVS, 5-HIAA	Urine, acidified	HPLC-ECD
Zonisamide	Serum	HPLC-DAD

Type of test:

Chromatography (Liquid chromatography (LC-MS-MS)**

Analyte (measurement parameter)	Test material (matrix)	Test technique
11-Desoxycortisol, corticosterone	Serum	LC-MS/MS
17-OH-progesterone	Serum	LC-MS/MS
25-OH-vitamin D2/D3	Serum	LC-MS/MS
Aldosterone	Serum, urine	LC-MS/MS
Alfentanil	Serum, plasma	LC-MS/MS
Alprazolam	Serum	LC-MS/MS
Amiodarone, desethylamiodarone	Serum	LC-MS/MS
Amitriptyline	Serum	LC-MS/MS
Amitriptyline-N-oxide	Serum	LC-MS/MS
Androstendione	Serum	LC-MS/MS
Aripiprazole	Serum	LC-MS/MS
Azathioprine	Serum	LC-MS/MS
Baclofen, enalaprilat	Serum	LC-MS/MS
Benperidol	Serum	LC-MS/MS
Biperidene	Serum	LC-MS/MS
Bisoprolol	Serum	LC-MS/MS
Bromazepam	Serum	LC-MS/MS

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Buprenorphine, norbuprenorphine	Serum, urine	LC-MS/MS
Chlordiazepoxide	Serum	LC-MS/MS
Chloroquine	Serum	LC-MS/MS
Chlorprothixene	Serum	LC-MS/MS
Citalopram, escitalopram	Serum	LC-MS/MS
Clobazam	Serum	LC-MS/MS
Clomipramine, norclomipramine	Serum	LC-MS/MS
Clonazepam	Serum	LC-MS/MS
Clozapine, desmethylclozapine, norclozapine	Serum	LC-MS/MS
Cortisol, free cortisol	Urine, saliva	LC-MS/MS
Cotinine	Serum, urine	LC-MS/MS
Cyclosporine	EDTA blood	LC-MS/MS
Desalkylflurazepam	Serum	LC-MS/MS
Desipramine	Serum	LC-MS/MS
Dexamethasone	Serum	LC-MS/MS
DHEA	Serum, plasma	LC-MS/MS
Diazepam	Serum	LC-MS/MS
Diazepam, desmethyldiazepam	Serum	LC-MS/MS
Dibenzepine	Serum	LC-MS/MS
Diclofenac	Serum	LC-MS/MS
Dihydrotestosterone	Serum	LC-MS/MS
Doxepin, nordoxepin	Serum	LC-MS/MS
Doxylamine	Serum	LC-MS/MS
Duloxetine	Serum	LC-MS/MS
Ethyl glucuronide	Serum, urine	LC-MS/MS
Everolimus	EDTA	LC-MS/MS
Fentanyl	Serum	LC-MS/MS
Flecainide	Serum	LC-MS/MS
Flunitrazepam	Serum	LC-MS/MS
Fluoxetine, norfluoxetine	Serum, plasma	LC-MS/MS
Flupenthixol	Serum, plasma	LC-MS/MS
Fluphenazine	Serum, plasma	LC-MS/MS
Flurazepam	Serum	LC-MS/MS
Fluvoxamine	Serum	LC-MS/MS
Haloperidol	Serum	LC-MS/MS
Homocysteine	Serum	LC-MS/MS
Imipramine	Serum	LC-MS/MS
Itraconazole	Serum	LC-MS/MS

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Levetiracetam	Serum	LC-MS/MS
Levomepromazine	Serum	LC-MS/MS
Lorazepam	Serum	LC-MS/MS
Lormetazepam	Serum	LC-MS/MS
Maprotiline	Serum	LC-MS/MS
Medazepam	Serum	LC-MS/MS
Melatonin	Serum	LC-MS/MS
Melatonin	Serum	LC-MS/MS
Melperone	Serum	LC-MS/MS
Metanephrine, normetanephrine	Urine	LC-MS/MS
Metanephrine, normetanephrine	Plasma	LC-MS/MS
Methadone	Serum	LC-MS/MS
Methotrexate	Serum	LC-MS/MS
Methylphenidate	Serum, urine	LC-MS/MS
Metoprolol	Serum	LC-MS/MS
Mianserin	Serum	LC-MS/MS
Midazolam	Serum	LC-MS/MS
Mirtazapine, desmethylmirtazapine	Serum	LC-MS/MS
Niacin	Serum	LC-MS/MS
Nicotinamide	Serum	LC-MS/MS
Nitrazepam	Serum	LC-MS/MS
Norclobazam	Serum	LC-MS/MS
Nordazepam	Serum	LC-MS/MS
Nortilidine	Serum	LC-MS/MS
Nortriptyline	Serum	LC-MS/MS
Olanzapine, desmethylolanzapine	Serum	LC-MS/MS
Oestrone/estrone (E1)	Serum	LC-MS/MS
Oestrone sulphate	Serum	LC-MS/MS
Oxazepam	Serum	LC-MS/MS
Paroxetine	Serum	LC-MS/MS
Perazine	Serum	LC-MS/MS
Perphenazine	Serum, plasma	LC-MS/MS
Phenprocumon	Serum	LC-MS/MS
Pipamperone	Serum	LC-MS/MS
Pregnenolone sulphate, pregnenolone	Serum	LC-MS/MS
Promazine	Serum	LC-MS/MS
Quetiapine, norquetiapine	Serum	LC-MS/MS
Reboxetine	Serum	LC-MS/MS

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Risperidone, 9-OH-risperidone, paliperidone	Serum	LC-MS/MS
Ritalinic acid	Serum, urine	LC-MS/MS
Sertindole	Serum	LC-MS/MS
Sertraline, norsesertraline	Serum	LC-MS/MS
Sirolimus	EDTA	LC-MS/MS
Sulpiride	Serum	LC-MS/MS
Tacrolimus	EDTA	LC-MS/MS
Tapentadol	Serum	LC-MS/MS
Temazepam	Serum	LC-MS/MS
Testosterone, free testosterone	Urine	LC-MS/MS
Tetrazepam	Serum	LC-MS/MS
Thioridazine	Serum	LC-MS/MS
Tiagabine	Serum	LC-MS/MS
Tiapride	Serum	LC-MS/MS
Tilidine	Serum	LC-MS/MS
Topiramate	Serum	LC-MS/MS
Tramadol	Serum	LC-MS/MS
Trazodone	Serum	LC-MS/MS
Triazolam	Serum	LC-MS/MS
Trimipramine, desmethyltrimipramine	Serum	LC-MS/MS
Valproic acid	Serum	LC-MS/MS
Venlafaxine, desmethylvenlafaxine	Serum	LC-MS/MS
Vigabatrine, gabapentin, pregabalin	Serum	LC-MS/MS
Vitamin D2, vitamin D3	Serum	LC-MS/MS
Vitamin K1	Serum, plasma	LC-MS/MS
Warfarin	Serum	LC-MS/MS
Ziprasidone	Serum	LC-MS/MS
Zolpidem	Serum	LC-MS/MS
Zopiclone	Serum	LC-MS/MS
Zuclopenthixol	Serum	LC-MS/MS

Type of test:

Flow cytometry (including determination of particle properties)*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Leucocytes, erythrocytes, haemoglobin, thrombocytes, MCV, haematocrit, MCH, MCHC, WBC	EDTA blood, liquor, aspirate, dialysate	Flow cytometry

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Type of test:

Electrochemical investigations*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Chloride	Serum, urine	Potentiometry (ISE)
Potassium	Serum, urine	Potentiometry (ISE)
Sodium	Serum, urine	Potentiometry (ISE)

Type of test:

Electrophoresis*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Albumin, A1-, A2-, β 1-, β 2, gamma globulin	Serum	Capillary electrophoresis
Immunofixation	Serum, urine	Gel-immunofixation-ELPHO
LDL sub-fractions	Serum	Lipid electrophoresis

Type of test:

Functional examinations on patients

Analyte (measurement parameter)	Test material (matrix)	Test technique
H ₂ respiratory test - fructose	Respiratory air	Electrochemical measurement
H ₂ respiratory test - lactose	Respiratory air	Electrochemical measurement
¹³ C- urea respiratory test	Respiratory air	GC-MS

Type of test:

Coagulometry*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Fibrinogen	Citrate plasma	coagulation, optical detection
PTT	Citrate plasma	Coagulation, optical detection
Quick, INR	Citrate plasma	Coagulation, optical detection
Thrombin time	Citrate plasma	Coagulation, optical detection

Type of test:

Ligand assays*

Analyte (measurement parameter)	Test material (matrix)	Test technique
1,25-dihydroxy vitamin D3	Serum, plasma	ELISA
ADMA	Serum, plasma	ELISA
Biotin	Serum, plasma	ELISA
IgA secretory	Faeces	ELISA
LDL cholesterol (oxidized)	Serum, plasma	ELISA
Melatonin sulphate	Urine	ELISA
Niacin	Serum, plasma	ELISA

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Nitrotyrosine	Serum, plasma	ELISA
Pantothenic acid	Serum, plasma	ELISA

Type of test:

Microscopy**

Analyte (measurement parameter)	Test material (matrix)	Test technique
Leucocyte alkaline phosphatase	Blood smear, EDTA	Microscopy
Leucocyte differentiation	Liquor	Microscopy – counting chamber
Thrombocytes	EDTA blood	Microscopy – counting chamber
Leucocytes	EDTA blood	Microscopy – counting chamber
Erythrocytes	EDTA blood	Microscopy – counting chamber
Sideroblasts, siderocytes (bone marrow)	Air-dried bone marrow smears	Microscopy
Basic and acidic components of cells and cell structures (bone marrow)	Air-dried bone marrow smears	Microscopy
Spermiogram	Sperma	Microscopy

Type of test:

Osmometry*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Osmolality	Serum, urine	Cryoscopy

Type of test:

Lysis reactions

Analyte (measurement parameter)	Test material (matrix)	Test technique
Osmotic resistance	EDTA blood	Photometric colour test

Type of test:

Spectrometry (UV /VIS photometry)**

Analyte (measurement parameter)	Test material (matrix)	Test technique
Albumin	Serum	Kinetic UV test
Alkaline phosphatase	Serum	Kinetic UV test
Ammonia	EDTA plasma, frozen	Kinetic UV test
Amylase	Serum, Li-heparin, heparin, EDTA plasma	Kinetic UV test
Inorganic phosphate	Serum, heparin, EDTA plasma, urine	Kinetic UV test
Antifactor Xa activity	Citrate plasma	Kinetic UV test
Antithrombin 3	Citrate plasma	Photometric colour test
Bilirubin in new-born children	Serum	2 photometric wavelengths

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Bilirubin direct	Serum, heparin and EDTA plasma	Photometric colour test
Bilirubin total	Serum, heparin and EDTA plasma	Photometric colour test
Blood sedimentation reaction	EDTA blood	Photometric colour test
Bromide	Serum	Photometric colour test
Calcium	Serum, heparin plasma	Photometric colour test
CHE	Serum, heparin and EDTA plasma	Kinetic UV test
Cholesterol	Serum, heparin and EDTA plasma	Enzymatic colour test
CK-MB	Serum	Kinetic UV test
Creatin kinase	Serum, heparin plasma, EDTA plasma	Kinetic UV test
Delta-aminolevulinic acid, porphobilinogen	Urine	Photometric colour test
Iron	Serum, heparin plasma	Photometric colour test
Free haemoglobin	Serum, heparin and EDTA plasma	Multi-component photometry
Total protein	Serum, heparin plasma, EDTA plasma, urine, liquor	Photometric colour test
Total porphyrins	Urine	Multi-component photometry
GGT	Serum, heparin and EDTA plasma	Kinetic UV test
Glucose	Serum, Na fluoride, urine, liquor, haemolysate (diluted 1:50)	Kinetic UV test
GOT	Serum, heparin and EDTA plasma	kinetic UV test
GPT	Serum, heparin and EDTA plasma	Kinetic UV test
Uric acid	Serum, heparin and EDTA plasma, urine	Kinetic UV test
Urea	Serum, heparin and EDTA plasma, urine	Kinetic UV test
HDL cholesterol	Serum, heparin and EDTA plasma	Enzymatic colour test
Creatinine, creatinine enzymatic	Serum, heparin and EDTA plasma	Photometric colour test, enzymatic colour test
Lactate	Serum in NaF tubule, liquor	Photometric colour test
LDH	Serum, heparin plasma	Kinetic UV test
LDL cholesterol	Serum, heparin and EDTA plasma	Enzymatic colour test
Lipase	Serum, heparin plasma	Photometric colour test
Lithium	Serum, heparin and EDTA plasma	Photometric colour test
Magnesium	Serum, heparin plasma, dialysate	Photometric colour test
Acid phosphatase	Serum	Enzymatic colour test
Triglycerides	Serum, heparin and EDTA plasma	Enzymatic colour test

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Type of test:

Spectrometry (reflectometry)*

Analyte (measurement parameter)	Test material (matrix)	Test technique
pH, leucocytes, nitrite, proteins, glucose, ketones, urobilinogen, bilirubin, erythrocytes	Urine	Reflectometry

Type of test:

Spectrometry (turbidimetry / immunoturbidimetry)*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Albumin	Urine	Immunoturbidimetry
ASL	Serum, heparin and EDTA plasma	Immunoturbidimetry
CRP	Serum, heparin and EDTA plasma	Immunoturbidimetry
Cystatine C	Serum, heparin plasma	Immunoturbidimetry
D-dimers	Citrate plasma	Immunoturbidimetry
Haptoglobin	Serum, heparin, citrate and EDTA plasma	Immunoturbidimetry
HbA1c	EDTA blood	Immunoturbidimetry
IgA	Serum, heparin and EDTA plasma	Immunoturbidimetry
IgG	Serum, heparin and EDTA plasma	Immunoturbidimetry
IgM	Serum, heparin and EDTA plasma	Immunoturbidimetry
Lpa	Serum, lithium-heparin	Immunoturbidimetry
Rheumatoid factor	Serum, heparin and EDTA plasma	Immunoturbidimetry
Transferrin	Serum, heparin plasma	Immunoturbidimetry
Complement C3	Serum	Immunoturbidimetry
Complement C4	Serum	Immunoturbidimetry

Type of test:

Spectrometry (atomic absorption spectrometry (AAS))**

Analyte (measurement parameter)	Test material (matrix)	Test technique
Aluminium	Urine, plasma	AAS-GA
Cadmium	EDTA, heparin or citrate blood, urine	AAS-GA
Calcium	Urine, whole blood	AAS
Chromium	Whole blood, EDTA	AAS-GA
Copper	Serum, urine	AAS
Gold	Serum, urine	AAS
Iron	Whole blood, urine	AAS
Lead	Serum, urine	AAS-GA
Magnesium	Serum, EDTA, urine	AAS
Manganese	EDTA, heparin blood, serum	AAS-GA

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Mercury	EDTA, heparin blood, urine, saliva	AAS hybrid technique
Potassium	Whole blood, EDTA	AAS
Selenium	Serum, urine, whole blood	AAS-GA
Sodium	Whole blood, EDTA	AAS
Zinc	Serum, EDTA, urine, saliva	AAS

Type of test:

Spectrometry (mass spectrometry (ICP-MS))

Analyte (measurement parameter)	Test material (matrix)	Test technique
Al, Ag, As, Au, B, Bi, Cd, Co, Cr, Cu, I, In, Mo, Ni, Pb, Pd, Pt, Sn, Tl, U, Zn	Urine	ICP-MS
Na, K, Ca, Mg, Cu, Fe, Zn, P, Pb, Li, Se, Cd, Mn, Cr	Whole blood	ICP-MS
Cu, Zn, Se	Serum	ICP-MS

Type of test:

Sedimentation investigations *

Analyte (measurement parameter)	Test material (matrix)	Test technique
Blood sedimentation rate	Citrate blood	Calculated value

Test area: Transfusion medicine

Type of test:

Agglutination tests*

Analyte (measurement parameter)	Test material (matrix)	Test technique
ab detection	Whole blood, EDTA blood, umbilical cord blood	Agglutination
ab differentiation	Whole blood, serum	Agglutination
ABO, rhesus factor	Whole blood, EDTA, citrate blood	Agglutination
Antibody detection	Serum	Agglutination
Antigen determination	EDTA, serum	Agglutination
Blood groups, antibodies rhesus type	EDTA plasma	Agglutination
Blood group determination	Serum	Agglutination
Erythrocytes – antigens and antibodies	Whole blood, EDTA, CPDA and heparin	Agglutination
Haemolysins	Serum	Agglutination
Cold AB	Serum	Agglutination
Cryoglobulins	Serum	Agglutination

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Type of test:

Flow cytometry *

Analyte (measurement parameter)	Test material (matrix)	Test technique
Immune status	EDTA, CPDA and heparin blood	Flow cytometry

Type of test:

Molecular-biological investigations (amplification method)

Analyte (measurement parameter)	Test material (matrix)	Test technique
ABO, anti-D	EDTA blood	PCR
HLA B27	EDTA, CPDA and heparin blood	PCR

Test area: Immunology

Type of test:

Ligand assays*

Analyte (measurement parameter)	Test material (matrix)	Test technique
ACA, U3RNP	Serum, aspirate	IFT
ACLA	Serum	ELISA
ACTH	EDTA plasma	ECLIA
Actin (ab against actin)	Serum	IFT
AHM	Serum	ELISA
Adiponectin	Serum, plasma	ELISA
AFP	Serum, plasma without addition of citrate, amniotic fluid	FIA
AFP	Serum	LIA
ab against MPO PR3 GBM	Serum, heparin and EDTA plasma	Flow-cytometric multiplex immunoassay
Albumin	Faeces	ELISA
Allergen panel	Serum	LIA
Alpha1-antitrypsin	Faeces	ELISA
AMA	Serum	IFT
ASMA	Serum	IFT
AMA, ASMA, LKM antibodies	Serum, aspirate	IFT
ANA	Serum	IFT
ANCA	Serum	IFT
Anti-gliadin sIgA antibodies	Faeces	ELISA
CA 19-9	Serum	LIA
CA125	Serum	LIA
CA153	Serum	LIA
Calcitonine	Serum, frozen	LIA

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Calprotectin	Faeces	ELISA
Cardiolipin-IgA-, IgG-, IgM ab	Serum, plasma	ELISA
CCP	Serum	ELISA
CEA	Serum	LIA
Cortisol	Serum, EDTA and citrate plasma	LIA
C-peptides	Serum, 24 h urine	LIA
Crosslaps	Serum, K3-EDTA, Na heparinate	ECLIA
DDNSI (ab against DDNSI)	Serum	IFT
Dehydroepiandrosterone sulphate (DHEAS)	Serum, EDTA, NaF, Na citrate	LIA
Diamin oxidase	Serum, EDTA plasma	ELISA
Digitoxin	Serum, heparin and EDTA plasma	LIA
Digoxin	Serum	LIA
dsDNA, chromium, Ribo, SSA, SSB, Jo1, SCL70, RNP, CENT, Sm, SmRNP	Serum/heparinised plasma	Flow-cytometric multiplex immunoassay
EDN	Faeces	ELISA
Ferritin	Serum, EDTA, citrate and heparin plasma	LIA
Fibrillarlin, PmScl, Nor90, RNA, To/Th, Mi2, Cu	Serum, plasma, aspirate, liquor	IFT
Follicle-stimulating hormone	Serum	LIA
Folic acid	Serum, EDTA whole blood (only for folic acid in erythrocytes)	LIA
Folic acid	Serum, whole blood	LIA
Free beta-HCG (TFHCG)	Serum	FIA
Free testosterone	Serum, heparin plasma	ELISA
ESME (AB against ESME)	Serum	IFT
FT3	Serum	LIA
FT4	Serum	LIA
Antimicrosomal antibodies	Serum, heparin and EDTA plasma	LIA
Antimicrosomal antibodies (ATPO)	Serum, Plasma	LIA
Gastrin	Serum, heparin plasma	LIA
Gliadin IgA	Serum	ELISA
Gliadin IgG	Serum	ELISA
Haemoglobin in the faeces	Faeces	ELISA
Haemoglobin-haptoglobin complex	Faeces	ELISA
HCG	Serum, urine	LIA
HCG (tumour)	Serum	FIA
Histamine	Faeces	ELISA
IgE	Serum	LIA

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Analyte (measurement parameter)	Test material (matrix)	Test technique
IgE (allergen-specific)	Serum	LIA
IgE (total)	Serum	LIA
IGF1 (insulin-like growth factor 1)	Serum, heparin plasma	LIA
IGFBP3 (insulin-like growth-binding protein 3)	Serum, heparin plasma	LIA
IgG4 (allergen-specific)	Serum, plasma	LIA
Inhibin A	Serum	ELISA
Inhibin B	Serum, EDTA plasma	ELISA
Insulin	Serum, EDTA plasma	LIA
Interleukin 2 soluble receptor	Serum	LIA
Interleukin 6	Serum, heparin and EDTA plasma	LIA
Lactoferrin	Faeces	ELISA
Leptin	Serum, plasma	ELISA
LH	Serum	LIA
Lysozyme	Faeces	ELISA
Oestradiol (E2)	Serum, heparin and EDTA plasma	LIA
Pancreatic elastase	Faeces	ELISA
PAPPA	Serum	IFT
Parathormone	K-EDTA plasma, serum	LIA
PARIA (ab against PARIA)	Serum	IFT
pBNP	Serum, L and heparin plasma	LIA
PINP	Serum	ECLIA
PLGF	Serum	ECLIA
PMN elastase	Faeces	ELISA
Procalcitonine	Serum, heparin or EDTA plasma	IFT
Progesterone	Serum	LIA
Proinsulin (IPROIN)	Serum, EDT plasma	ELISA
Prolactin	Serum	LIA
PSA, cPSA	Serum, heparin and EDTA plasma	LIA
Renin	EDTA plasma, frozen	LIA
Tissue glutaminase IgA	Serum	ELISA
sFLT-1	Serum	ECLIA
SHBG	Serum	LIA
Somatrophic hormone (HGH)	Serum	LIA
β-2 glycoprotein	Serum	ELISA
T3 total	Serum, heparin plasma	LIA
T4 total	Serum, heparin plasma	LIA
Thyreoglobulin antibody	Serum, EDTA plasma	LIA
Thyreoglobulin antibody (ATG)	Serum, plasma	LIA

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Testosterone	Serum	LIA
Thyreoglobulin	Serum	FIA
TRAK	Serum	FIA
Troponin I	Serum, heparin and EDTA plasma	LIA
TSH	Serum, heparin and EDTA plasma	LIA
Tumour M2-PK	Faeces	ELISA
Unconjugated oestriol	Serum	LIA
Verotoxin	Faeces	ELISA
Vitamin B 12	Serum, heparin and EDTA plasma	LIA
Zonulin	Faeces	ELISA

Test area: Microbiology

Type of test:

Agglutination tests*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Bacteria in the liquor	Liquor	Agglutination
Bacteria from pure culture (salmonella, streptococci, staphylococci)	Culture material	Agglutination
Treponema pallidum antibodies	Serum, liquor	Agglutination
Legionella pneumophila antigen, streptococcus pneumoniae antigen	Urine, liquor	Agglutination

Type of test:

Chromatography (immunochromatography)

Analyte (measurement parameter)	Test material (matrix)	Test technique
Malaria quick-test	Blood	IC

Type of test:

Sensitivity testing of bacteria, parasites and fungi *

Analyte (measurement parameter)	Test material (matrix)	Test technique
Aerobic bacteria	Culture	Agar diffusion test, MIC determination, micro-dilution
Detection of inhibitors	Urine	Spore plate
Helicobacter pylori	Culture material	MIC determination
Sensitivity of fungi against antimycotic agents	Culture material	MIC determination, micro-dilution

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Type of test:

Germ differentiation/identification/typing*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Anaerobic bacteria	Culture	Biochemical
Bacteria of the HACEK group	Culture	Culture growth behaviour, biochemical
Campylobacter jejuni	Culture	Culture growth behaviour
Enterobacteriaceae	Culture	Biochemical
Extended-spectrum β -lactamase/MRGN	Culture	Culture growth behaviour, Cominate disk test
Gardnerella vaginalis	Culture	Culture growth behaviour
Neisseria spp.	Culture	Biochemical
Corynebacterium spp.	Culture	Biochemical
Yeasts	Culture	Culture growth behaviour, biochemical
Lactobacillus	Culture	Culture growth behaviour, biochemical
Staphylococci	Culture	Biochemical
Streptococci	Culture	Culture growth behaviour, biochemical
Vancomycin-resistant enterococci (VRE)	Culture	Culture growth behaviour, biochemical
Non-fermenter (neg. bacterial rod)	Culture	Biochemical
MRSA	Culture	Culture growth behaviour, biochemical

Type of test:

Culture investigations*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Bacteria and fungi	Smears of all types, liquor, aspirate, saliva, tracheal secretion, bronchial irrigation, bronchial secretion, central venous catheter (CVC) tips, catheter tips, ejaculates, blood cultures, urine	Culture
Helicobacter pylori	Gastric biopsy	Culture
Urogenital mycoplasma / ureaplasma spp.	Smear	Culture
Campylobacter, salmonella, shigellas, yersinias	Faeces	Culture

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Type of test:

Ligand assays*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Clostridium difficile toxin A/B	Faeces, culture	ELISA
Clostridium difficile toxin GDH	Faeces, culture	ELISA
Entamoeba histolytica	Faeces	ELISA
Borrelia IgG	Serum	LIA
Borrelia IgG	Serum	Immunoblot
Borrelia IgM	Serum	LIA
Borrelia IgM	Serum	Immunoblot
Cryptosporidium parvum (faeces)	Faeces	ELISA
Gardia lamblia	Faeces	ELISA
Helicobacter pylori antigen	Faeces I	ELISA
Treponema pallidum IgG search test	Serum	CLIA
Treponema pallidum IgG	Serum	Flow-cytometric multiplex immunoassay
Treponema pallidum IgM	Serum	Flow-cytometric multiplex immunoassay
Tuberculosis diagnosis (T-cells)	CPDA blood	Lymphocyte proliferation test

Type of test:

Microscopy*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Sediment	Urine	Microscopy
Mycoplasmas (urogenital)	Culture	Microscopy
Parasites	Faeces	Microscopy, SAF enrichment

Type of test:

Molecular-biological investigations (amplification method)*

Analyte (measurement parameter)	Test material (matrix)	Test technique
MRSA	Isolated DNA from smears	PCR

Type of test:

Qualitative investigations (simple) with visual evaluation*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Clostridium difficile	Faeces	ELISA

Test area: Virology

Type of test:

Ligand assays*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Adenoviruses	Faeces	ELISA
Norovirus	Faeces	ELISA
Rotavirus	Faeces	ELISA
CMV IgG	Serum, EDTA, heparin or citrate plasma	LIA
CMV avidity	Serum, EDTA, heparin and citrate plasma	LIA
CMV-IgM	Serum, EDTA, heparin or citrate plasma	LIA
AHA	Serum, Li-heparin, EDTA and Na citrate plasma	LIA
AHBe	Serum, Li-heparin, EDTA and Na citrate plasma	LIA
Anti-HAV IgM	Serum, Li-heparin, EDTA and Na citrate plasma	LIA
Anti-HBc	Serum, Li-heparin, EDTA and Na citrate plasma	LIA
Anti-HBc-IgM	Serum, Li-heparin, EDTA and Na citrate plasma	LIA
Anti-HBs	Serum, Li-heparin, EDTA and Na citrate plasma	LIA
Anti-HCV	Serum, Li, EDTA and Na citrate plasma	LIA
EBV IgM	Serum/heparinised plasma	CLIA
EBV IgG	Serum/heparinised plasma	CLIA
EBV Early ag	Serum/heparinised plasma	CLIA
EBV EBNA	Serum/heparinised plasma	CLIA
HBeAG	Serum, Li, EDTA and Na citrate plasma	LIA
HBsAG	Serum, Li,-heparin EDTA and Na citrate plasma	LIA
HIV Combi (HIV p24 AG, HIV AB)	Serum, EDTA, citrate, NaF	LIA
HSV 1/2 IgG	Serum	LIA
HSV 1/2 IgM	Serum	LIA
HSV-2- IgG	Serum	LIA
Parvo-IgG	Serum, EDTA plasma	LIA
Parvo-IgM	Serum, EDTA plasma	LIA

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Analyte (measurement parameter)	Test material (matrix)	Test technique
Polio virus- ab	Serum	Neutralisation test
Rubella IgG	Serum, Li-heparin, EDTA and Na citrate plasma	ECLIA
Rubella IgM	Serum, Li-heparin, EDTA and Na citrate plasma	ECLIA
VZV IgG	Serum	LIA
VZV IgM	Serum	LIA

Type of test:

Qualitative investigations (simple) with visual evaluation*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Norovirus	Faeces	ELISA
Rotavirus	Faeces	ELISA