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Within the flexible scope of accreditation, MLM Medical Labs is permitted to modify and further develop or develop new test procedures without information or prior approval from DAkkS.

The currently validated test methods in the flexible test areas marked with * are listed below

Medical laboratory field: Clinical chemistry

Type of examination :

Agglutination tests*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Amphetamine	Urine	KIMS	SOP-MG-LAB.M.0096	Roche Cobas® 6000	x	
Barbiturate	Urine	KIMS	SOP-MG-LAB.M.0097	Roche Cobas® 6000	x	
Benzodiazepine	Urine	KIMS	SOP-MG-LAB.M.0098	Roche Cobas® 6000	x	
Cannabinoids	Urine	KIMS	SOP-MG-LAB.M.0099	Roche Cobas® 6000	x	
Cocain + metabolits	Urine	KIMS	SOP-MG-LAB.M.0100	Roche Cobas® 6000	x	
CRP	Serum EDTA plasma Li-Heparin plasma	Latex agglutination test	SOP-MG-LAB.M.0017	Roche Cobas® 6000	x	
Cystatin C	Serum EDTA plasma Li-Heparin plasma	Latex agglutination test	SOP-MG-LAB.M.0064	Roche Cobas® 6000	x	
Methadone + metabolits	Urine	KIMS	SOP-MG-LAB.M.0101	Roche Cobas® 6000	x	
Opiate	Urine	KIMS	SOP-MG-LAB.M.0102	Roche Cobas® 6000	x	
Phencyclidine + metabolits	Urine	KIMS	SOP-MG-LAB.M.0110	Roche Cobas® 6000	x	

Type of examination :

Chromatography (High performance liquid chromatography (HPLC))*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Adrenaline	EDTA plasma	ECD	SOP-MG-HPL.M.0004	Waters Alliance	x	
Adrenaline	Urine	ECD	SOP-MG-HPL.M.0013	Waters Alliance	x	
HbA1c	EDTA blood	UV detection	SOP-MG-LAB.M.0083	TOSOH G8	x	
Noradrenaline	EDTA plasma	ECD	SOP-MG-HPL.M.0004	Waters Alliance	x	
Noradrenaline	Urine	ECD	SOP-MG-HPL.M.0013	Waters Alliance	x	

Type of examination :

Chromatography (High performance liquid chromatography (HPLC))*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Adrenaline	EDTA plasma	ECD	SOP-MG-HPL.M.0004	Waters Alliance	x	
Adrenaline	Urine	ECD	SOP-MG-HPL.M.0013	Waters Alliance	x	
HbA1c	EDTA blood	UV detection	SOP-MG-LAB.M.0083	TOSOH G8	x	
Noradrenaline	EDTA plasma	ECD	SOP-MG-HPL.M.0004	Waters Alliance	x	
Noradrenaline	Urine	ECD	SOP-MG-HPL.M.0013	Waters Alliance	x	

Type of examination:

Flow cytometry*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Complete blood count	EDTA blood	Cell-number determination / differentiation	SOP-MG-LAB.M.0125	Sysmex XN-1000	x	
Blood count	EDTA blood	Cell-number determination / differentiation	SOP-MG-LAB.M.0125	Sysmex XN-1000	x	
Reticulocytes	EDTA blood	Cell-number determination / differentiation	SOP-MG-LAB.M.0125	Sysmex XN-1000	x	

Type of examination:

Electrochemical tests*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Chloride	Serum Heparin plasma Urine	Potentiometry (ISE)	SOP-MG-LAB.M.0034	Roche Cobas® 6000	x	
Potassium	Serum Heparin plasma Urine	Potentiometry (ISE)	SOP-MG-LAB.M.0024	Roche Cobas® 6000	x	
Sodium	Serum Heparin plasma Urine	Potentiometry (ISE)	SOP-MG-LAB.M.0033	Roche Cobas® 6000	x	

Type of examination:

Coagulometry*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
aPTT	Citrate plasma	Coagulometry	SOP-MG-LAB.M.0076	Stago STA Compact Max® 3	x	
D-Dimer	Citrate plasma	Coagulometry	SOP-MG-LAB.M.0078	Stago STA Compact Max® 3	x	
Fibrinogen	Citrate plasma	Coagulometry	SOP-MG-LAB.M.0075	Stago STA Compact Max® 3	x	
Prothrombin time (PT/Quick/INR)	Citrate plasma	Coagulometry	SOP-MG-LAB.M.0077	Stago STA Compact Max® 3	x	
Thrombin time	Citrate plasma	Coagulometry	SOP-MG-LAB.M.0086	Stago STA Compact Max® 3	x	

Type of examination:

Ligand assays*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Cortisol	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0003	Roche Cobas® 6000	x	
C-peptide	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0039	Roche Cobas® 6000	x	
Estradiol	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0089	Roche Cobas® 6000	x	
Ferritin	Serum EDTA plasma Heparin plasma	ECLIA	SOP-MG-LAB.M.0025	Roche Cobas® 6000	x	
FSH	Serum EDTA plasma Heparin plasma	ECLIA	SOP-MG-LAB.M.0012	Roche Cobas® 6000	x	
FT3	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0069	Roche Cobas® 6000	x	
FT4	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0071	Roche Cobas® 6000	x	

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Glucagon	EDTA plasma + aprotinin P800 plasma	RIA	SOP-MG-RIA.M.0001	Perkin Elmer Gamma Counter Wizard 2470	x	
hCG-β	Serum EDTA plasma Heparin plasma Urine	ECLIA	SOP-MG-LAB.M.0067	Roche Cobas® 6000	x	
IL-6	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0090	Roche Cobas® 6000	x	
Insulin	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0002	Roche Cobas® 6000	x	
LH	Serum EDTA plasma Heparin plasma NaF plasma	ECLIA	SOP-MG-LAB.M.0011	Roche Cobas® 6000	x	
NT-pro BNP	Serum EDTA plasma Heparin plasma	ECLIA	SOP-MG-LAB.M.0008	Roche Cobas® 6000	x	
Progesterone	Serum EDTA-Plasma Heparin-Plasma NaF-Plasma	ECLIA	SOP-MG-LAB.M.0010	Roche Cobas® 6000	x	
Prolactin	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0009	Roche Cobas® 6000	x	
Renin activity	EDTA plasma	RIA	SOP-MG-RIA.M.0006	Perkin Elmer Gamma Counter Wizard 2470	x	

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
T3	Serum EDTA plasma Heparin plasma NaF plasma Citrate plasma	ECLIA	SOP-MG-LAB.M.0068	Roche Cobas® 6000	x	
T4	Serum EDTA plasma Heparin plasma	ECLIA	SOP-MG-LAB.M.0070	Roche Cobas® 6000	x	
Testosterone	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0095	Roche Cobas® 6000	x	
Tricyclic antidepressants	Urine	EIA	SOP-MG-LAB.M.0048	Roche Cobas® 6000	x	
Troponin T	Serum EDTA plasma Heparin plasma	ECLIA	SOP-MG-LAB.M.0079	Roche Cobas® 6000	x	
TSH	Serum EDTA plasma Heparin plasma NaF plasma Citrate plasma	ECLIA	SOP-MG-LAB.M.0072	Roche Cobas® 6000	x	

Type of examination:

Microscopy*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Urine sediment	Urine	Bright-field microscopy	SOP-MG-LAB.M.0082	Manual	x	

Type of examination:

Osmometry

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Osmolality	Serum Urine	Cryoscopy	SOP-MG-MDL.M.0020	Advanced Instruments Micro Osmometer	x	

Type of examination:

Spectrometry (Photometry)*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
ALAT (ALT, GPT)	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0019	Roche Cobas® 6000	x	
Albumin	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0029	Roche Cobas® 6000	x	
Alkaline phosphatase	Serum Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0028	Roche Cobas® 6000	x	
Alcohol/ Ethanol	Serum EDTA-Plasma Li-Heparin-Plasma Urin	Photometry	SOP-MG-LAB.M.0103	Roche Cobas® 6000	x	
Amylase α	Serum Li-Heparin plasma Urine	Photometry	SOP-MG-LAB.M.0058	Roche Cobas® 6000	x	
ASAT (AST, GOT)	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0018	Roche Cobas® 6000	x	
Bicarbonate	Serum Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0036	Roche Cobas® 6000	x	
Bilirubin	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Roche Cobas®u 411	x	
Bilirubin total	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0021	Roche Cobas® 6000	x	
Bilirubin direct	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0060	Roche Cobas® 6000	x	

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Calcium	Serum Li-Heparin plasma Urine (acidified)	Photometry	SOP-MG-LAB.M.0027	Roche Cobas® 6000	x	
Cholesterol	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0052	Roche Cobas® 6000	x	
Cholinesterase	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0059	Roche Cobas® 6000	x	
CK	Serum Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0053	Roche Cobas® 6000	x	
CK-MB	Serum Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0054	Roche Cobas® 6000	x	
Creatinine	Serum EDTA plasma Li-Heparin plasma Urine	Photometry	SOP-MG-LAB.M.0035	Roche Cobas® 6000	x	
Iron	Serum Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0074	Roche Cobas® 6000	x	
GGT	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0020	Roche Cobas® 6000	x	
GLDH	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0061	Roche Cobas® 6000	x	
Glucose	Serum NaF plasma Urine	Photometry	SOP-MG-LAB.M.0022	Roche Cobas® 6000	x	
Glucose	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Roche Cobas®u 411	x	
Hemoglobin	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Roche Cobas®u 411	x	

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Urin acid	Serum EDTA plasma Li-Heparin plasma Urine	Photometry	SOP-MG-LAB.M.0032	Roche Cobas® 6000	x	
Urea	Serum EDTA plasma Li-Heparin plasma Urine	Photometry	SOP-MG-LAB.M.0037	Roche Cobas® 6000	x	
HDL-cholesterol	Serum Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0055	Roche Cobas® 6000	x	
Hydroxybutyrate dehydrogenase (HBDH)	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0063	Roche Cobas® 6000	x	
Ketone	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Cobas®u 411	x	
Lactate	NaF plasma Na-heparin plasma Cerebrospinal fluid	Photometry	SOP-MG-LAB.M.0062	Roche Cobas® 6000	x	
LDH	Serum Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0030	Roche Cobas® 6000	x	
LDL cholesterol	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0056	Roche Cobas® 6000	x	
Leukocytes	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Cobas®u 411	x	
Lipase	Serum Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0057	Roche Cobas® 6000	x	
Magnesium	Serum Li-Heparin plasma Urin (acidified)	Photometry	SOP-MG-LAB.M.0038	Roche Cobas® 6000	x	
Nitrite	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Cobas®u 411	x	
Pancreatic amylase	Serum Li-Heparin plasma Urine	Photometry	SOP-MG-LAB.M.0113	Roche Cobas® 6000	x	

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
pH value	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Cobas®u 411	x	
Phosphate	Serum EDTA plasma Li-Heparin plasma Urine	Photometry	SOP-MG-LAB.M.0026	Roche Cobas® 6000	x	
Total protein	Serum EDTA-Plasma Li-Heparin-Plasma	Photometry	SOP-MG-LAB.M.0031	Roche Cobas® 6000	x	
Protein	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Cobas®u 411	x	
Specific weight	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Cobas®u 411	x	
Triglycerides	Serum EDTA plasma Li-Heparin plasma	Photometry	SOP-MG-LAB.M.0051	Roche Cobas® 6000	x	
Urobilinogen	Urine	Reflectance Photometry	SOP-MG-LAB.M.0081	Cobas®u 411	x	

Type of examination:

Spectrometry (Turbidimetry)*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Albumin	Urine	Turbidimetry	SOP-MG-LAB.M.0085	Roche Cobas® 6000	x	
Protein total	Urine	Turbidimetry	SOP-MG-LAB.M.0112	Roche Cobas® 6000	x	
Transferrin	Serum Li-Heparin plasma	Turbidimetry	SOP-MG-LAB.M.0107	Roche Cobas® 6000	x	

Type of examination:

Spectrometry (Nephelometry / Immunnephelometry)*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Cystatin C	Serum	Nephelometry	SOP-MG-MDL.M.0024	Siemens BN II	x	

Medical laboratory field: Virology

Type of examination:

Ligand assays*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
Hepatitis Bs antigen	Serum EDTA plasma Li-Heparin plasma Citrate plasma	ECLIA	SOP-MG-LAB.M.0065	Roche Cobas® 6000	x	
Hepatitis C antibodies	Serum EDTA plasma Heparin plasma Citrate plasma	ECLIA	SOP-MG-LAB.M.0066	Roche Cobas® 6000	x	
HIV-1/2 antibodies	Serum EDTA plasma Li-Heparin plasma	ECLIA	SOP-MG-LAB.M.0073	Roche Cobas® 6000	x	

Medical laboratory field: Microbiological examinations (Amplification method)*

Analyte (measurement parameter)	Test material (matrix)	Test technique	QM Document	Analyzer	CE-method	in-house method
SARS-CoV-2	Swab	Real-time PCR	SOP-MG-PCR.M.0001	Bio-Rad CFX96 Dx	x	