

ACCREDITATION DOCUMENT

TEST 038

Dr. Først Medisinsk Laboratorium AS,
Søren Bulls vei 25
1051 OSLO

The scope of accreditation is in accordance with the specifications on the following pages in this document.

The accreditation was initially granted 23.06.1995. The accreditation is given according to "Law on the free exchange of goods in the European Economic Area" of 14.04.2013.
The organisation complies with the requirements in NS-EN ISO 15189 (2012)

The accreditation requires regular surveillance, and is valid until 27.03.2025.

The decision of accreditation made by Norwegian Accreditation implies that the organisation has been found to fulfil the requirements for accreditation within the scope.
The organisation itself is responsible for the results of performed measurements.

NORWEGIAN ACCREDITATION

13.05.2020

Date

Beate B. Hellerud (sign)

Norwegian Accreditation

Administrative/geographical unit:

Avd. Bergen, Damsgårdveien 16

**Damsgårdveien 16,
5058 Bergen, 4. etg.**

Permanent facility

M12 Medical biochemistry

Object	Parameter	Reference standard	Identity of internal method	Comments
Plasma	INR	Internal method	166	Photometry (clot formation) and Sysmex CA620

Field testing laboratory

M30 Sample collection

Object	Parameter	Reference standard	Identity of internal method	Comments
Patients	Blood		SP-03-02-04 SP-03-02-10 SP-03-02-16 SP-03-02-17	Sampling private homes Recognized procedures for venous puncture

13.05.2020

Date

Beate B. Hellerud (sign)

Norwegian Accreditation

Administrative/geographical unit:

Avd. Bergen, Strandkaien 16
Strandkaien 16
5013 Bergen

Permanent facility

M30 Sample collection

Object	Parameter	Reference standard	Identity of internal method	Comments
Patients	Blood	Internal method	SP-03-02-04	Recognized procedures for venous puncture and urine samples.
Patients	Blood Urine for abuseanalysis	Internal method	SP-03-02-04 SP-03-02-09 SP-03-02-11	Recognized procedures for venous puncture and urine samples.

13.05.2020

Date

Beate B. Hellerud (sign)

Norwegian Accreditation

Accreditation document
Accreditation no. TEST 038

Administrative/geographical unit:

Avd. Dronningensgate 40

Dronningensgate 40

0154 Oslo

Permanent facility

M12 Medical biochemistry

Object	Parameter	Reference standard	Identity of internal method	Comments
Plasma	INR	Internal method	166	Photometry (clot formation) and Sysmex CA620

Permanent facility

M30 Sample collection

Object	Parameter	Reference standard	Identity of internal method	Comments
Patients	Blood Urine for abuse analysis		SP-03-02-04 SP-03-02-09 SP-03-02-10	Recognized procedures for venous puncture and urine samples

13.05.2020

Date

Beate B. Hellerud (sign)

Norwegian Accreditation

Accreditation document
Accreditation no. TEST 038

Administrative/geographical unit:

Avd. Majorstuen
Kirkeveien 64b
0364 Oslo

Permanent facility

M30 **Sample collection**

Object	Parameter	Reference standard	Identity of internal method	Comments
Patients	Blod		SP-03-02-04 SP-03-02-10	Recognized procedures for venous puncture and urine samples.

13.05.2020

Date

Beate B. Hellerud (sign)

Norwegian Accreditation

Administrative/geographical unit:

Avd. Sandefjord
Dronningensgate 3
3211 Sandefjord

Permanent facility

M12 **Medical biochemistry**

Object	Parameter	Reference standard	Identity of internal method	Comments
Plasma	INR	Internal method	166	Photometry (clot formation) og Sysmex CA620

Permanent facility

M30 **Sample collection**

Object	Parameter	Reference standard	Identity of internal method	Comments
Patients	Blood Urine for abuse analysis		SP-03-02-04 SP-03-02-09 SP-03-02-10	Recognized procedures for venous puncture and urine samples

Field testing laboratory

M30 **Sample collection**

Object	Parameter	Reference standard	Identity of internal method	Comments
Patients	Blood		SP-03-02-04 SP-03-02-16 SP-03-02-17 SP-03-02-10	Recognized procedures for venous puncture and urine samples.

13.05.2020

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M02 Anatomical pathology

Object	Parameter	Reference standard	Identity of internal method	Comments
Stained tissue sections - gynecological pathology, cervix, vagina, vulva, and endometrial pathology	Diagnosis	Internal method	SP-03-05-XD05 SP-03-05-XD06 SP-03-05-XD07	Microscopy; tradisional and digital
Cervix cyological cell material	Diagnosis, liquid based cytology	Internal method	SP-03-05-XSCREEN	
Stained tissue sections - Esophagus	Diagnosis	Internal method	SP-03-0-XD08	Microscopy; tradisional and digital
Stained tissue sections - Ventricular	Diagnosis	Internal method	SP-03-0-XD09	Microscopy; tradisional and digital
Stained tissue sections - small intestine	Diagnosis	Internal method	T01	Microscopy; tradisional and digital
Stained tissue sections - colon	Diagnosis	Internal method	T01	Microscopy; tradisional and digital
Stained tissue sections - epidermis	Diagnosis	Internal method	T01	Microscopy; tradisional and digital

Permanent facility

M0210 Anatomical pathology, histopathology

Object	Parameter	Reference standard	Identity of internal method	Comments
Tissue samples	Tissue	Internal method	T01	BenchMark
Tissue samples	Tissue	Internal method	TO1	Roche Ventana Symphony
Tissue samples	Tissue	Internal method	TO1	BenchMark Special stains

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M0230 Anatomical pathology, cytopathology

Object	Parameter	Reference standard	Identity of internal method	Comments
Cervix secretions vaginal secretions	Liquid Based Cytology (LBC)	Internal methods	T10	ThinPrep T5000

Permanent facility

M04 Clinical pharmacology

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	Litium		023	Fotometri, Advia Chemistry XPT
Serum	Digoxin	Internal method	039	Immunoassay, Advia Centaur XPT
Urine	Amphetamines /Ecstasy		650	Immunoassay, Atellica CH 930
Urine	Opiates		651	Immunoassay, Atellica CH 930
Urine	Benzodiazepines		652	Immunoassay, Atellica CH 930
Urine	Cannabinoids		654	Immunoassay, Atellica CH 930
Urine	Cocaine		656	Immunoassay, Atellica CH 930
Urine	Methadone metabolite		659	Immunoassay, Atellica CH 930
Urine	Methadone		668	Immunoassay, Atellica CH 930
Urine	pH i urine		680	Fotometri, Atellica CH 930
Urine	Ethyl glucuronide		686	Immunoassay, Atellica CH 930
Urine	Amphetamines		751	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Methamphetamine		752	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Temazepam, n-Diazepam, Desmethyldiazepam		754, 759, 760	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Oxazepam		755	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS

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M04 Clinical pharmacology

Object	Parameter	Reference standard	Identity of internal method	Comments
Urine	Nitrazepam		756	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Klonazepam		757	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Alprazolam		758	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Heroin metabolite		761	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Morphine		762	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Codeine		763	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	ethylmorphine		764	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	THC acid		775	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Buprenorphine		779	Immunoassay, Atellica CH 930
Urine	Ecstasy, MDA, MDMA		783, 786, 787	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Flunitrazepam		785	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Cocaine metabolite		792	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Urine	Ecstasy	Internal method	A75	Immunoassay, Atellica CH 930
Urine	amphetamines	Internal method	A76	Immunoassay, Atellica CH 930
Urine	Ritalin acid	Internal method	R02	Mass Spectrometry, Waters Acquity UPLC with Triple Quadrupole MS
Urine	Pregabalin	Internal method	R04	Mass Spectrometry, Waters Acquity UPLC with Triple Quadrupole MS

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M04 Clinical pharmacology

Object	Parameter	Reference standard	Identity of internal method	Comments
Urin	Tramadol	Internal method	R16	Mass Spectrometry, Waters Acquity UPLC with Triple Quadropole MS
Urine	Midazolam	Internal method	R20	Mass Spectrometry, Waters Acquity UPLC with Triple Quadropole MS
Urine	Oxycodone	Internal method	R22	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadropole MS
Urine	Oksykodon	Internal method	R22	Immunoassay, Atellica CH 930
Urine	Ethyl glucuronide	Internal method	R40	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadropole MS
Urine	Ethyl sulphate	Internal method	R41	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadropole MS
Urine	Zopiklon/Zolpidem	Internal method	R80, 766, 767	Mass Spectrometry, Waters Acquity UPLC with Triple Quadropole MS
Blood	B-Fosfatidyletanol Peth	Internal method	SP-03-05-A58	Massespektrometry SFC-MS/MS Waters Acquity UPC2 with tandem MS

Permanent facility

M12 Medical biochemistry

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	TSI	Internal method	A97	Immunoassay, Immulite 2000
Blood	Hemoglobin	Internal method	001	Photometry, Sysmex XN-9000
Blood	Erythrocytes	Internal method	002	Particle count, Sysmex XN-9000
Blood	Leukocytes	Internal method	004	Particle count, Sysmex XN-9000
Blood	Reticulocytes	Internal method	010	Particle count, Sysmex XN-9000
Blood	Thrombocytes	Internal method	011	Particle count, Sysmex XN-9000
Blood	Hematocrit	Internal method	012	Resistance measurement, Sysmex XN-9000
Blood	Erythrocyte indices: MCV, MCH, MCHC	Internal method	013, 016, 017	Calculated parameter, Sysmex XN-9000

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M12 Medical biochemistry

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	Selenium	Internal method	018	Mass spectrometry (ICP-MS), Elan DRC II
Serum	Potassium	Internal method	020	ISE, Advia Chemistry XPT
Serum	Sodium	Internal method	021	ISE, Advia Chemistry XPT
Serum	Chloride	Internal method	022	ISE, Advia Chemistry XPT
Serum	Inorganic phosphate	Internal method	024	Photometry, Advia Chemistry XPT
Serum	S-Calcium	Internal method	025	Photometry, Advia Chemistry XPT
Serum	Magnesium	Internal method	026	Photometry, Advia Chemistry XPT
Blood	Lead	Internal method	027	Mass spectrometry (ICP-MS), Elan DRC II
Serum	Zinc	Internal method	028, 328, 428	Mass spectrometry (ICP-MS), Elan DRC II
Blood	Mercury	Internal method	029	Mass spectrometry (ICP-MS), Elan DRC II
Serum	Alkaline phosphatase	Internal method	030	Photometry, Advia Chemistry XPT
Serum	ASAT	Internal method	033	Photometry, Advia Chemistry XPT
Serum	ALAT	Internal method	034	Photometry, Advia Chemistry XPT
Serum	LD	Internal method	035	Photometry, Advia Chemistry XPT
Serum	CK	Internal method	036	Photometry, Advia Chemistry XPT
Blood	HbA1c	Internal method	037	HPLC, fotometric readout, Liquid chromatography, Tosoh G8
Serum	Amylase, total	Internal method	038	Photometry, Advia Chemistry XPT
Blood serum	Bilirubin	Internal method	040	Photometry, Advia Chemistry XPT
Serum	Glucose	Internal method	041, 141, 341	Photometry, Advia Chemistry XPT
Serum	Iron	Internal method	043, 143	Photometry, Advia Chemistry XPT
Serum	Iron Binding Capacity (TIBC)	Internal method	044	Photometry (immunoturbidimetric), Advia Chemistry XPT and Calculated parameter.
Serum	Cholesterol	Internal method	047	Photometry, Advia Chemistry XPT
Serum	Creatinine	Internal method	048	Photometry, Advia Chemistry XPT
Serum	Protein total	Internal method	049	Photometry, Advia Chemistry XPT

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Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	Serum proteins:	Internal method	050	Capillary electrophoresis, Capillarys
	Albumin,		850	
	Alpha 1-globulin,		851	
	Alpha 2-globulin,		852	
	Gamma globulin,		854	
	Beta 1-globulin,		860	
Beta 2-globulin,	861			
Serum	Urea	Internal method	058	Photometry, Advia Chemistry XPT
Serum	Uric acid	Internal method	059	Photometry, Advia Chemistry XPT
Serum	Vitamin B12	Internal method	060	Immunoassay, Centaur XPT
Serum	Calcium, corrected	Internal method	063	Calculated parameter, Advia Chemistry XPT
Serum	Albumin	Internal method	069	Photometry, Advia Chemistry XPT
	Autoantibodies:		073	
	ANA screen,		172	
	Anti-SSA (Anti-Ro),		172	
	Anti-SSB (Anti-La),		176	
	Anti-Scl-70,		177	
	Anti-RNP,		178	
	Anti-dsDNA,		179	
	Anti-centromer		184	
	Anti-Jo-1,		187	
	Anti-CCP,		273	
	Anti-MPO,		274	
	Anti-PR-3,		464	
	Anti-tTG IgA,		A72	
	Anti-IgG-deam.			
Gliadin				
Serum	Anti-TPO,	Internal method	083	Immunoassay Centur XPT
Serum	Folate	Internal method	086	Immunoassay, Centaur XPT
Serum	Rheumatoid factor	Internal method	087	Photometry, Advia Chemistry XPT
Serum	CRP	Internal method	088	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	Alfa-1-antitrypsin	Internal method	093	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	HDL-cholesterol	Internal method	100	Photometry, Advia Chemistry XPT
Serum	Haptoglobin	Internal method	105	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	Gamma GT	Internal method	107	Photometry, Advia Chemistry XPT

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M12 Medical biochemistry

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	Aluminium	Internal method	112	Mass spectrometry (ICP-MS), Elan DRC II
Serum	Copper	Internal method	114, 414, 514	Mass spectrometry (ICP-MS), Elan DRC II
Blood	Cadmium	Internal method	115	Mass spectrometry (ICP-MS), Elan DRC II
Serum	TSH	Internal method	118	Immunoassay, Centaur XPT
Serum	Ferritin	Internal method	119	Photometry (immunoturbidimetric), Advia Chemistry XPT
Urine	Mercury	Internal method	130, 330	Mass spectrometry (ICP-MS), Elan DRC II
Serum	Progesterone	Internal method	131	Immunoassay, Centaur XPT
Serum	Estradiol	Internal method	132	Immunoassay, Centaur XPT
Plasma	Homocysteine	Internal method	142	Immunoassay, Centaur XPT
Plasma	PTH	Internal method	146	Immunoassay, Centaur XPT
Urine	Protein total	Internal method	149	Fotometri, Atellica CH 930
Serum	IgE	Internal method	163	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	IgG	Internal method	165	Photometry (immunoturbidimetric), Advia Chemistry XPT
Plasma	INR	Internal method	166	Photometry (clot formation) and Sysmex CS2100i
Serum	Lipase	Internal method	180	Photometry, Advia Chemistry XPT
Serum	Amylase, pancreas	Internal method	181	Photometry, Advia Chemistry XPT
Serum	Free T3	Internal method	186	Immunoassay, Centaur XPT
Serum	Free T4	Internal method	189	Immunoassay, Centaur XPT
Serum	Prolactin	Internal method	190	Immunoassay, Centaur XPT
Urine	Cadmium	Internal method	215	Mass spectrometry (ICP-MS), Elan DRC II
Serum	PSA	Internal method	232	Immunoassay, Centaur XPT
Serum	Iron Saturation (%)	Internal method	244	Calculated parameter. Advia Chemistry XPT
Serum	eGFR (CKD-EPI)	Internal method	247	Calculated parameter. Advia Chemistry XPT

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M12 Medical biochemistry

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	IgA	Internal method	265	Photometry (immunoturbidimetric), Advia Chemistry XPT
Urine	Micro albumin	Internal method	269	Fotometri, Atellica CH 930
Serum	LDL-cholesterol	Internal method	300	Photometry, Advia Chemistry XPT
Serum	Cortisol	Internal method	301, 302, 306, A55, A56	Immunoassay, Centaur XPT
Urine	Potassium	Internal method	320	ISE, Advia Chemistry XPT
Urine	Sodium	Internal method	321	ISE, Advia Chemistry XPT
Urine	U-Calcium	Internal method	325, 425	Photometry, Advia Chemistry XPT
Urine	Magnesium	Internal method	326	Photometry, Advia Chemistry XPT
Blood	HbA1c, alt.method	Internal method	337	Photometry (immunoturbidimetric), DCA Vantage
Serum	Methylmalonic acid (MMA)	Internal method	342	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Serum	ApoB/ApoA-1 ratio	Internal method	346	Calculated parameter, Advia Chemistry XPT
Serum	U-AKR alb/kreat ratio	Internal method	360	Calculated ratio Analysis at Atellica CH 930
Serum	IgM	Internal method	365	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	Apolipoprotein A1 & Apolipoprotein B	Internal method	449, 450, 346	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	Lipoprotein (a)	Internal method	451	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	Micro CRP	Internal method	453	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	Vitamin D	Internal method	489, 498, 499	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Serum	Vitamin A	Internal method	491	Mass spectrometry (LC-MS/MS) Waters Acquity UPLC with triple quadrupole MS
Serum	S-Vitamin E	Internal method	494	Massespektrometri (LC-MS/MS), Waters Acquity UPLC med trippelquadrupole MS
Serum	Vitamin K	Internal method	497	Massespektrometry SFC-MS/MS

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Permanent facility

M12 Medical biochemistry

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	Inhalation panel Season	Internal method	517	Immunoassay, ImmunoCAP, Phadia5000
Serum	Inhalation panel Full year	Internal method	518	Immunoassay, ImmunoCAP, Phadia5000
Serum	Food panel	Internal method	519	Immunoassay, ImmunoCAP, Phadia5000
Serum	Birch t3	Internal method	520	Immunoassay, ImmunoCAP, Phadia5000
Serum	Timothy g6	Internal method	521	Immunoassay, ImmunoCAP, Phadia5000
Serum	Mugwort w6	Internal method	522	Immunoassay, ImmunoCAP, Phadia5000
Serum	Cladosporium m2	Internal method	523	Immunoassay, ImmunoCAP, Phadia5000
Serum	Alternaria ten m6	Internal method	524	Immunoassay, ImmunoCAP, Phadia5000
Serum	D. pteronyssinus d1	Internal method	525	Immunoassay, ImmunoCAP, Phadia5000
Serum	Cat, epithelium e1	Internal method	529	Immunoassay, ImmunoCAP, Phadia5000
Serum	Dog, dandruff e5	Internal method	530	Immunoassay, ImmunoCAP, Phadia5000
Serum	Horse, dandruff e3	Internal method	531	Immunoassay, ImmunoCAP, Phadia5000
Serum	Rabbit epithelium E82	Internal method	534	Immunoassay, ImmunoCAP, Phadia5000
Serum	Egg white f1	Internal method	537	Immunoassay, ImmunoCAP, Phadia5000
Serum	Cow's milk f2	Internal method	538	Immunoassay, ImmunoCAP, Phadia5000
Serum	Cod	Internal method	539	Immunoassay, ImmunoCAP, Phadia5000
Serum	Peanut f13	Internal method	541	Immunoassay, ImmunoCAP, Phadia5000
Serum	Soybean f14	Internal method	542	Immunoassay, ImmunoCAP, Phadia5000
Urine	Creatinine	Internal method	548, 648	Fotometri, Atellica CH 930
Serum	Wheat f14	Internal method	555	Immunoassay, ImmunoCAP, Phadia5000
Serum	LH	Internal method	630	Immunoassay, Centaur XPT
Serum	FSH	Internal method	631	Immunoassay, Centaur XPT
Serum	Testosterone	Internal method	632, 633	Immunoassay, Centaur XPT
Serum	SHBG	Internal method	633	Immunoassay, Centaur XPT
Serum	hCG	Internal method	634	Immunoassay, Centaur XPT
Serum	Free Testosterone Index	Internal method	635	Calculated parameter, Centaur XPT
Serum	Ethanol	Internal method	657	Fotometri, Advia Chemistry XPT

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M12 Medical biochemistry

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	CDT	Internal method	658	Capillary electrophoresis, Capillarys
Urine	U-THCA/Creat. Ratio	Internal method	660	Calculation Beregnet parameter Analysis at Atellica CH 930
Urine	Ethanol	Internal method	666	Photometry, Atellica CH 930
Blood	Differential leukocyte count	Internal method	904, 902, 905, 903, 005, 900	Paticle count, Sysmex XN-9000
Blood	Differential cell count of leukocytes in blood smears	Internal method	964, 962, 965, 963 966 954, 952, 955, 953, 956	Visual evaluation, Microscopy
Serum	NT-proBNP	Internal method	A46	Immunoassay, Immulite 2000
Serum	CEA	Internal method	A50	Immunoassay, Centaur XPT
Serum	CA125	Internal method	A51	Immunoassay, Centaur XPT
Blood	Chrome	Internal method	A60	Mass spectrometry (ICP-MS), Elan DRC II
Blood	Cobalt	Internal method	A61	Mass spectrometry (ICP-MS), Elan DRC II
Blood	RDW-CV	Internal method	A69	Calculated parameter Sysmex XN-9000
Blood	Ret He	Internal method	A70	Particle count, Sysmex XN-9000
Serum	S-Parietalcelle as	Internal method	A91	Immunoassay P2500EE
Serum	S-Intrinsic faktor as	Internal method	A92	Immunoassay P2500EE
Serum	Triglycerides	Internal method	A96, 054	Photometry, Advia Chemistry XPT
Serum	Cystatin C	Internal method	A98	Photometry (immunoturbidimetric), Advia Chemistry XPT
Serum	Cystatin C, eGFR	Internal method	A99	Calculated parameter, Advia Chemistry XPT

Permanent facility

M1610 Medical microbiology, bacteriology

Object	Parameter	Reference standard	Identity of internal method	Comments
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M1610 Medical microbiology, bacteriology

Object	Parameter	Reference standard	Identity of internal method	Comments
Secretion from the nasopharynx, throat and expectorate	Respiratory profile:	Internal method	292	NAT, 7500 Real-Time PCR System
	M. pneumoniae		293	
	C. pneumoniae		294	
	B. pertussis		295	
Secret from wound	Treponema pallidum	Internal method	506	7500 Real Time PCR system
Secret from eye, throat and genitals. Urine	Chlamydia trachomatis	Internal method	690, 684, 245, 347, 211, 246, 815	NAT, Panther
Secret from anus and genitals Urine	Mycoplasma genitalium	Internal method	691, 329, 296, 818	NAT, Panther
Secretion from the eye, throat, anus and genitals. Urine	Neisseria gonorrhoeae	Internal method	693, 696, 687, 298, 229, 695	NAT, Panther
Secretion from genitals	Trichomonas vaginalis	Internal method	N39, N36	NAT, Panther
Faeces	E. coli / Shigella diagnostics	Internal method	N47, N29, N70, N71, N77, N78	NAT, 7500 Real-Time PCR system (PG2205)
Faeces	Salmonella, Campylobacter, Yersinia	Internal method	N47, N64, N66, N69	NAT, 7500 Real-Time PCR system (PG2405)
Faeces	Clostridium difficile og C. diff. Toxin	Internal method	N48, N63, N73	NAT, 7500 Real-Time PCR system (0835)
Secreted from the anus, throat, abdomen, urine	M.genital.res.gen	Internal method	P80	7500 Real Time PCR system
Bacteria- and yeast cultures	Identification of bacteria and yeast	Internal method	SP-03-05-Maldi U-02-AUTOFN01	Mass spectrometry (MALDI-TOF)
Bacteriaculture	Identification and resistance determination	Internal method	SP-03-05-MW	Fotometry Automated identification and possible resistance determination (MicroScan WalkAway 96)
Bacteriaculture	Resistance determination	Internal method	SP-03-05-RES	Agardiffusion with antibiotic taps
Bacteriaculture	Resistance determination	Internal method	Strips og SP-03-05-VUR	Agargradient diffusion MIC determination
Urine	Patogene aerobe bakterier og sopp	Internal method	U01, U06	Growth on growth medium, visual and photometric reading including identification and possible resistance determination.

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Beate B. Hellerud (sign)

Norwegian Accreditation

Administrative/geographical unit:

Hovedlab Oslo/Furuset

Søren Bulls vei 25

1051 OSLO

Permanent facility

M1610 Medical microbiology, bacteriology

Object	Parameter	Reference standard	Identity of internal method	Comments
Secreted from lower respiratory tract	Patogene aerobe/anaerobe bakterier and fungi	Internal method	U01, U06, U02	Growth on growth medium, visual and photometric reading including identification and possible resistance determination.
Secreted from skin, soft tissue, skin scraping, Liquid from closed cavity / abscess / joint fluid and breast milk	Patogene aerobe/anaerobe bakterier and fungi	Internal method	U01, U06, U02, U16	Growth on growth medium, visual and photometric reading including identification and possible resistance determination.
Secretion from cervix	Patogene aerobe bakterier og sopp	Internal method	U01, U07, U06	Growth on growth medium, visual and photometric reading including identification and possible resistance determination.
Secreted from upper respiratory tract (included eye)	Patogene aerobe/anaerobe bakterier and fungi	Internal method	U01, U07, U06, U02	Growth on growth medium, visual and photometric reading including identification and possible resistance determination.
Urine, secretion from the neck, nose, perineum, eczema, scars, wounds and skin scrap	MRSA	Internal method	U08, U40 - U49, L40, L50, L60	Growth on growth medium, visual and photometric reading including identification and possible resistance determination.
Sekret fra anus	Salmonella, Shigella, Campylobacter, Yersinia, EHEC, EIEC og EPEC	Internal method	U20, U21, U22, U23, U24, U34, U36	Growth on growth medium, visual and photometric reading including identification and possible resistance determination.
Bacteria culture	van A/B resistance gene AmpC resistance gene	Internal method	U55, U56, U62, U63, U64 and U65	NAT (Gene II Mk-2)
Urine and secret from rectum, wound	VRE screening, ESBL-screening	Internal method	U60, U61	Growth on growth medium, visual and photometric reading including identification and possible resistance determination.

Permanent facility

M1640 Medical microbiology, virology

Object	Parameter	Reference standard	Identity of internal method	Comments
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M1640 Medical microbiology, virology

Object	Parameter	Reference standard	Identity of internal method	Comments
Nasopharynx secretion	Influenta B	Internal method	267	NAT, 7500 Real-Time PCR System
Nasopharynx secretion	Influenta A	Internal method	277	NAT, 7500 Real-Time PCR System
Nasopharynx secretion	H1N1	Internal method	279	NAT, 7500 Real-Time PCR System
Secretions from wound	Herpes simplex virus 1 & 2	Internal method	281 285	7500 Real Time PCR system
Faeces	Astro, Adeno og Rota	Internal method	N49, N50, N52, N54	NAT, 7500 Real-Time PCR system (PG1325)
Faeces	Noro I og II	Internal method	N49, N56, N58	NAT, 7500 Real-Time PCR system (PG1415)
Secretions from genital	Human Papilomavirus	Internal method	P20, P21, P22, P23	NAT, m2000rt Real-Time PCR System
Secretions from wound	Varizella Zoster V	Internal method	P40	7500 Real Time PCR system
Nasopharynx secretions Throat secretions	Respiratory virus, parainfluenta virus, RS virus, humant metapneum.v.	Internal method	P60, P61, P62, P63	NAT, 7500 Real-time PCR System

Permanent facility

M1650 Medical microbiology, parasitology

Object	Parameter	Reference standard	Identity of internal method	Comments
Faeces	Giardia, Cryptosporidium, Entamoeba	Internal method	P46, P47, P48	NAT (1725), 7500 Real-Time PCR system

Permanent facility

M1660 Medical microbiology, infection immunology

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	Varizella zoster IgG	Internal method	310	Immunoassay, Liaison XL
Serum	Rubella virus IgG	Internal method	359	Immunoassay, Centaur XPT

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Permanent facility

M1660 Medical microbiology, infection immunology

Object	Parameter	Reference standard	Identity of internal method	Comments
Serum	Toxoplasma gondii IgM & IgG	Internal method	362 361	Immunoassay, Centaur XPT
Serum	CMV IgM & IgG	Internal method	364, 363, S04, S14, S15	Immunoassay Immulite 2000 Liaison XL (S-methods)
Serum	Syphilis Ab	Internal method	512	Immunoassay, Centaur XPT
Serum	HBc Ab	Internal method	700	Immunoassay, Centaur XPT
Serum	HBs Ag HBs Ag neutralization	Internal method	701 724	Immunoassay, Centaur XPT
Serum	HCV Ab	Internal method	702	Immunoassay, Centaur XPT
Serum	HBs Ab/Ag	Internal method	705, 701	Immunoassay, Centaur XPT
Serum	Hepatitis A virus (HAV) IgM & IgG	Internal method	706, 727	Immunoassay, Centaur XPT
Serum	Helicobacter pylori IgG	Internal method	707	Immunoassay, Immulite 2000
Serum	Hepatitis A virus (HAV) total Ab	Internal method	716	Immunoassay, Centaur XPT
Serum	S-Anti-HBc	Internal method	729	Immunoassay Liaison XL
Serum	HIV Ag/Ab	Internal method	733	Immunoassay, Centaur XPT
Serum	Hbe Ab/Ag	Internal method	S01, 704	Immunoassay, Centaur XPT
Serum	Mycoplasma pneumonia IgM & IgG	Internal method	S02 S03	Immunoassay, Liaison XL
Serum	EBV-VCA IgM & IgG	Internal method	S10, S11	Immunoassay, Liaison XL
Serum	EBV-EBNA IgG	Internal method	S12	Immunoassay, Liaison XL
Serum	S-Anti-Borrelia IgG & IgM	Internal method	S20 S21	Immunoassay Liaison XL
Serum	S-Anti-HCV	Internal method	SP-03-05-HCV	NAT

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Permanent facility

M30 Sample collection

Object	Parameter	Reference standard	Identity of internal method	Comments
Patients	Blood and urine for abuse analysis		SP-03-02-04 SP-03-02-10 SP-03-02-09	Recognized procedures for venous puncture and urine samples

Permanent facility

M31 Flexible accreditation

Object	Parameter	Reference standard	Identity of internal method	Comments
Parameter, object, method	All methods in M02, M04, M12 and M16	Internal method		M02: The flexibility is limited to the diagnosis of only the objects for which the company holds accreditation General: Updated list of accredited methods is available from Test 038

Field testing laboratory

M30 Sample collection

Object	Parameter	Reference standard	Identity of internal method	Comments
Patients	Blood		SP-03-02-04, SP-03-02-10, SP-03-02-16, SP-03-02-17	Sampling private homes Recognized procedures for venous puncture

Validation responsible personnel, flexible accreditation:

Sissel Grønvold

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Trude Sandvik

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13.05.2020

Date

Beate B. Hellerud (sign)

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