

EXTERNAL QUALITY ASSESSMENT 2023 PRODUCT CATALOGUE

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Service information

Labquality - EQAS

Labquality is an independent Finnish external quality assessment provider. Labquality has more than 50 years of experience in helping clinical laboratories and POCT sites develop and maintain their performance. Labquality's EQA schemes are internationally recognized high quality programs. The EQA programs have a clinical scope with an educational touch. Part of the EQA production is outsourced to expert laboratories and national partners.

Integrated EQA service (EQA³)

Labquality is the first EQA provider that has integrated pre-analytical, analytical and post-analytical phases to its EQA programs. Advanced and traditional EQA schemes have been designed to fully support the total quality management system of the participating laboratories and fulfill ISO 15189 requirements concerning the extra-analytical phases. In addition to the samples, the integrated schemes include pre- and/or post-analytical questionnaires concerning the scope of the scheme.

Quality management

Labquality's management system is certified according to ISO 9001 (DQS) and the main EQA schemes are accredited according to ISO 17043 (PT02/FINAS). The scope of accreditation is available on the FINAS website: **www.finas.fi**, and the accreditation status of the EQA schemes is available on our website: **www.labquality.fi/en**. The list of accredited schemes will be provided upon request.

EQA service availability

Labquality has customers in over 50 countries in Europe, Asia, America and North Africa. Service is localized by 40 national partners. All digital schemes, including pre-analytical schemes and diagnostic schemes for anatomic pathology, are available globally. With only a few exceptions all schemes are globally available through national partner. For direct customers, the program selection is limited to the schemes with stabile and non-hazardous sample materials.

Enrolment and prices

Labquality has annual programs and pricing. Participants shall place their orders for the following year before the end of November to ensure their participation in all needed EQA rounds. Enrolment is possible during the calendar year, but only part of the EQA rounds may be available. To place an order, please contact our national partner in your country or Labquality's customer service at info@labquality.com

Distributions

Labquality's specimen logistics system is accepted and continuously audited as part of accreditation according to the ISO 17043 (PT02/FINAS) standard. Specimens are shipped according to the annual schedule. Labquality retains the right to make changes in the schedule.

LabScala EQA portal

Partners and participants are able to handle the whole EQA process from orders to reports through a modern web based software, LabScala. The EQA process is designed to go along with the laboratory process from pre-analytics to post-analytics. Easy availability and user-friendly interface guarantee an advanced experience.

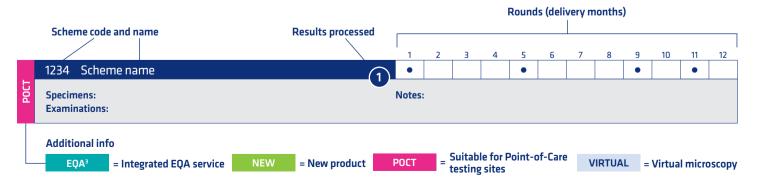
Certificate

A certificate of participation will be provided upon request at the end of the calendar year. The certificate refers to EQA reports to evaluate the performance of the participant.

Customer service

Please contact Labquality's international partners (listed on our website: www.labquality.fi/en) or our customer service: info@labquality.fi

How to use the catalogue



Results processed: The number shows how many results from different analyzers or tests within the same laboratory are allowed depending on scheme, when the sample volume is sufficient. Schemes marked with * allow multiple results reporting only, if they are analyzed with different methods.

Updates for 2023

New schemes and products

- 2704 ACTH and Cortisol (p 9)
- 2706 Salivary cortisol (p 9)
- 2754 Faecal elastase (p 11)
- 5250 Interferon Gamma Release Assay (IGRA) for Mycobacterium tuberculosis (p 20)
- 5261 Fungal infections, nucleic acid detection (p 25)
- 5556 HSV1&2/VZV/T. pallidum, nucleic acid detection (p 26)
- 5965 CXCL13 Chemokine (p 21)
- 5230 *Mycobacterium tuberculosis*, drug resistance (p 23)
- 2115 Haemoglobin, 1-level HemoCue 801 and HemoCue 301 (p 7)

Changes in distribution schedule

- 2200 Lipids and lipoproteins and 2202 Lipoprotein a (4 rounds /year)
- 2109 Bilirubin, conjugated (4 rounds /year)
- 5612 Chlamydia trachomatis and Neisseria gonorrhoeae nucleic acid detection
- 5302 Sexually transmitted diseases multiplex, nucleic acid detection
- 2132 C-reactive protein (CRP), POCT
- 5560 Puumala virus, antibodies
- 5635 Dengue virus, antibodies and antigen detection
- 5562 Multiple respiratory virus, nucleic acid detection

Discontinued schemes

5850 Brucella antibodies2733 Erythrocyte sedimentation rate: iSED

Changes in scope, specimens or parameters

- 5300 Respiratory infections multiplex, nucleic acid detection New parameter: *Legionella pneumophila*
- 5472 Faecal parasites multiplex, nucleic acid detection Discontinued parameter: *Entamoeba dispar*
- 5681 SARS-CoV-2 antigen detection Samples: Number of samples increased from two to three

Planned pilot schemes

Information about pilot studies and schedules are updated on our website https://www.labquality.fi/en/external-quality-assessment/new-round/ Pilot studies are EQA schemes under development.

Virology: Monkeypox virus, nucleic acid detection (planned for late 2022) Microbiology: Blood culture pathogens (sepsis), multiplex, nucleic acid detection Mycology: Fungal infection, native and fluorescence virtual microscopy Haematology: Flow cytometry: Immunophenotyping, lymphocyte subsets

Clinical chemistry

The clinical chemistry portfolio covers areas of allergology, basic chemistry, cardiac markers, diabetes analysis, endocrinology, special chemistry, specific proteins, tumour markers and urine analysis. For routine chemistry needs, schemes with both one and two level samples enabling assessment of more than 50 analytes are available. A wide selection of schemes specifically tailored for POCT devices are also available, including e.g. those for drug abuse screening, glucose meters and troponin detection.

Clinical chemistry » Allergology

			3	4	5	0		0	9	10	11	
2675 Allergen component [UK NEQAS]	<u>1</u>		•		•	•		•		•		
Specimens: 2 liquid human serum samples for allergen component tests Examinations: Allergen component test which covers recombinant allergens as well as the ISAC system				i to all r of Nove						d		
	1	2	3	4	5	6	7	8	9	10	11	1
2681 Allergy in vitro diagnostics [SKML]	1	•			•			•		•		
Specimens: 3 liquid human serum samples for specific IgEs with 3 allergens, 2 mixes and total IgE in each and some allergen components, 0.5 mL Examinations: Total IgE, specific IgEs, allergen mixes and allergen components	until t			i to all r of Nove							oruary.	
		_	з	4	5	~	7	8	9	10	11	1
	1	2				ь						
	1 Notes		• ipatior	to all r	ounds	• require	ed. Sho	• ould be	ordere	•		
Specimens: 2 liquid human serum samples for specific IgEs with 4 allergens n each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL	Notes	Partic he begi		to all r of Nove		Limite		ability.				
Specimens: 2 liquid human serum samples for specific IgEs with 4 allergens n each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL Examinations: Total IgE and specific IgEs	Notes	Partic								• ed 10	11	1
Specimens: 2 liquid human serum samples for specific IgEs with 4 allergens n each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL Examinations: Total IgE and specific IgEs 2680 Eosinophil cationic protein Specimens: 1 lyophilized human serum sample, 0.3 mL	Notes until t	Partic he begi	3 • ts are p		smber.	Limite	d avail	ability.	9	10		
Specimens: 2 liquid human serum samples for specific IgEs with 4 allergens n each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL Examinations: Total IgE and specific IgEs 2680 Eosinophil cationic protein Specimens: 1 lyophilized human serum sample, 0.3 mL	Notes until t	2 Resul	3 • ts are p	4	smber.	Limite	d avail	ability.	9	10		
Specimens: 2 liquid human serum samples for specific IgEs with 4 allergens in each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL Examinations: Total IgE and specific IgEs 2680 Eosinophil cationic protein Specimens: 1 lyophilized human serum sample, 0.3 mL Examinations: ECP	Notes until t	2 Resul e 2670	3 • ts are p	4	smber.	Limite	d avail	ability.	9	10 • sults of	F	1

			1	2	3	4	5	6	7	8	9	10	11	12
	2100 Basic chemistry, POCT analyzers			•			•			•			•	
POCT	Specimens: 2 human serum samples, 1 mL Examinations: Alanine aminotransferase, albumin, alkaline phosphatase, amylase (total and pancreatic), aspartate aminotransferase, calcium, chloride, HDL cholesterol, cholesterol, creatinekinase, creatinine,		phosp Notes: If you a	horus, j For clir are not	potass nical lat sure wl	nsfera: ium, sc porator hether r servic	odium, ies and your de	total p POCT	rotein, sites. O	triglyc nly for	erides, dry che	urea, u mistry	iric acio analyzo	ers.
			1	2	3	4	5	6	7	8	9	10	11	12
	2730 Erythrocyte sedimentation rate	\square			•		•				٠		•	
	Specimens: 1 artificial blood cell suspension, ~ 4 mL		Notes	Not su	uitable	for Alg	or iSec	1						

Examinations: ESR

	1	2	3	4	5	6	7	8	9	10	11	12
2731 Erythrocyte sedimentation rate: Alifax-analyzers; Greiner tube)		•		•				•		•	
Specimens: 3 test tubes containing synthetic latex solution, 3 mL	Exami	nation	s: ESR									
	1	2	3	4	5	6	7	8	9	10	11	12
2732 Erythrocyte sedimentation rate: Alifax-analyzers; Sarstedt tube)		•		•				•		•	
Specimens: 3 test tubes containing synthetic latex solution, 3 mL	Exami	nation	s: ESR									
	1	2	3	4	5	6	7	8	9	10	11	12
2750 Faecal occult blood, qualitative) •				•				•		•	
Specimens: 2 preparations that include human haemoglobin, 0.5 mL Examinations: Qualitative detection of Hb in human faeces	Notes	For cl	inical la	aborato	ories an	nd POC	T sites					
	1	2	3	4	5	6	7	8	9	10	11	12
2749 Faecal occult blood, quantitative			•			•			•			•
Specimens: 2 liquid samples including human haemoglobin. In June and Dec possibly lyophilized or artificial stool sample preparations including human haemoglobin. Examinations: Quantitative determination of Hb in human faeces (iFOB/FIT)	sampl	e form		s both	the pre	eanaly [.]				y, the o process		
	1	2	3	4	5	6	7	8	9	10	11	12
2114 Haemoglobin, 1-level, POCT			•		•				•		•	
Specimens: 1 bovine sample, 1 mL Examinations: Haemoglobin	Notes or Hen			T devid	es. No	t suita	ble for	Diaspe	ect, He	moCue	301	
	1	2	3	4	5	6	7	8	9	10	11	12
2115 Haemoglobin, 1-level HemoCue 801 and HemoCue 301			•		•				•		•	
Specimens: 1 bovine sample, 1 mL Examinations: Haemoglobin	Notes	: Only	for Hen	noCue	801 and	d Hem	oCue 30	D1.				
	1	2	3	4	5	6	7	8	9	10	11	12
2113 Haemoglobin, 3-level samples, cell counters and analyzers									•			
Specimens: 3 human whole blood control samples, 1 mL (low, medium and high concentration)	will be	provic	led in t	he sum	imary r	report.	ith thre	ee sam	iples. F	leferen	ce valu	es
	Notes	For ce	ell coun	iters an	iu analy	yzers						
2112 Haemoglobin, 3-level samples, POCT	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 3 bovine or human samples, 1 mL (low, medium and high concentration)			s: Haei for POC	-								

Clinical chemistry » Cardiac markers

	1	2	3	4	5	6	7	8	9	10	11	12
1541 CRP, low concentration 3		•		•		•			•		٠	
Specimens: 1 human serum sample Examinations: CRP	Notes marke		ow con CRP	icentrat	tion sai	mple is	s includ	ed in p	roduct	2541 M	lyocari	diac
	1	2	3	4	5	6	7	8	9	10	11	12
2540 Myocardial markers		•		•		•			•		•	
Specimens: 2 liquid samples, 0.5 mL	Notes	Suits	clinical	l labora	tory an	alyzer	s. See a	also sch	ieme 2	530 Tro	ponin	I

		1	2	ч	4	5	6	7	8	q	10	11	12
	2541 Myocardial markers and CRP, low concentration		•		•		•	,		•		•	
	Specimens: 2 liquid samples for myocardial markers, 0,5 mL, and one for CRP 1 mL Examinations: CK-MB mass, myoglobin, quantitative troponin I, quantitative troponin T and CRP, low concentration. Not for CKMB activity!	and T,	detec	tion fo	r POCT.	If you a	are not	sure w		your de	2530 Tro evice is		
		1	2	3	4	5	6	7	8	9	10	11	12
н	2690 Natriuretic peptides 1, B-type, NT-ProBNP	•			•			•			•		
POCT	Specimens: 2 liquid samples, 3 mL Examinations: NT-ProBNP				linical cobas		ories ar	nd POC	T sites.	. Also s	suitable	e for Ro	oche
		1	2	3	4	5	6	7	8	9	10	11	12
РОСТ	2691 Natriuretic peptides 2, B-type, BNP 3	•			•			•			•		
2	Specimens: 2 liquid samples, 3 mL Examinations: BNP	Notes	: For c	linical	aborat	ories ar	nd POC	T sites					
	2530 Troponin I and Troponin T, POCT	1	2	3	4	5	6	7	8	9	10	11	12
POCT	2530 Troponint and Troponint I, POCT 3 Specimens: 2 fresh human samples or 2 liquid samples, 0.5 mL Examinations: Detection of troponin I and troponin T Notes: Qualitative and quantitative results are processed	This s sure v	cheme	ryour	/ for PC		eme 25			yzers. l	lf you a ase cor	are not	
	Clinical chemistry » Diabetes analysis	1	2	3	4	5	6	7	8	9	10	11	12
POCT	2570, 2580, 2590 Glucose meters 5		•			•				•		•	
EQA ³ P(Device specific product codes: 2570 for all glucose meters except Contour, HemoCue and On Call Plus 2580 for HemoCue meters 2590 for Contour meters	Exam Notes	i natio : 5 res	1s: Glu ults pro	cose ocessed	or plas I with o same p	ne ord	er if sai	mple vo	o lume i	is suffi	cient	
		1	2	3	4	5	6	7	8	9	10	11	12
	1261 Haemoglobin A1c, liquid samples		•		•		•		•		•		•
	Specimens: 2 liquid blood samples, 0.5 mL Examinations: HbA1c	Notes	: Not s	uitabl	e for Af	inion ir	istrum	ents.					
		1	2	3	4	5	6	7	8	9	10	11	12
н	1263 Haemoglobin A1c, liquid samples, POCT				•		•				•		•
POCT	Specimens: 2 liquid blood samples, 0.5 mL Examinations: HbA1c	Notes	: Only	for PO	CT devi	ces. No	t suital	ble for .	Afinion	ı instru	iments		
		1	2	3	4	5	6	7	8	9	10	11	12
F	2526 Ketones (beta-hydroxybutyrate), POCT 3			•						•			
POCT	Specimens: 2 serum samples, 0.4 mL Examinations: beta-hydroxybutyrate					clinica sufficie		atories.	3 resul	lts proc	cessed	with or	ne
	Clinical chemistry » Endocrinology	1	7	2	Л	5	6	7	8	9	10	11	17
	2300, 23005 Hormones A: Basic analytes of hormone and		•	5	•	•	•	/	•		10	11	12

Notes: 23005 is a limited version of the scheme available for laboratories performing testing of 1–5 analytes. For additional set of samples, order scheme 1300. Product 23005 does not include reporting from multiple analyzers or methods.

1 2 3 4 5 6 7 8 9 10 11 12 1300 Hormones A, extra set of samples • ٠ ullet٠ • • • ٠ Specimens: 2 human serum samples, 3 mL Notes: Only in connection with scheme 2300

3

EQA³

Specimens: 2 human serum samples with differing concentrations,

Pre- and/or post-analytical cases in part of the rounds

3 mL each. Liquid serum sample (one level) included in Apr and Oct rounds.

Examinations: Ferritin, folate, hCG (total, intact), T3, free T3, T4, free T4, TSH, vitamin B12, active vitamin B-12, pre- and/or post-analytical indicators

	1	2	3	4	5	6	7	8	9	10	11	12
2301, 23015 Hormones B: Steroid and peptide hormones		•		•		•		•		•		•
Specimens: 2 human serum samples with differing concentrations, 3 mL. Liquid serum sample (one level) included in Apr, Aug and Dec rounds. Pre- and/or postanalytical cases in part of the rounds. Examinations: Androstenedione, aldosterone, C-peptide, cortisol, DHEAS, estradiol, FSH, gastrin, growth hormone, IGF-1, insulin, LH, progesterone, 17-OH-progesterone, prolactin, SHBG, testosterone, free testosterone, TBG,	Notes is a lin testin	Refernited vo g of 1–9 ct 2301	ersion 5 analy	of the steel	or 1 ana scheme r additi	ilyte in e availa ional si	liquid s able for et of sa g from	labora mples,	tories , order	perforr schem	ning e 1301.	
1301 Hormones B, extra set of samples	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 human serum samples, 3 mL	Notes	: Only i	in conn	ection	with so	:heme	2301	•		•		•
	1	2	3	4	5	6	7	8	9	10	11	12
2250 Parathyroid hormone, intact			•							•		
Specimens: 2 lyophilized human serum samples, 3 mL	Exami	nation	IS: PTH	, intact	t							
	1	2	3	4	5	6	7	8	9	10	11	12
2704 ACTH and cortisol 3						•					•	
Specimens: 2 lyophilized human serum samples, 3 mL	Exami	nation	ı s: Adre	enocort	icotrop	ic horr	none (A	ACTH) a	and Co	rtisol		
	1	2	3	4	5	6	7	8	9	10	11	12
2706 Salivary Cortisol Specimens: To be confirmed: 2 liquid or lyophilized simulated salivary samples		nation	• Is: Saliv	/ary co	rtisol				•			
linical chemistry » General long-term clinical che	mistr	v. ki	now	n co	ncer	ntrai	tion					
	1	2	3	4	5	6	7	8	9	10	11	12
			1									

Specimens: 1 lyophilized human serum sample, 5 mL

Examinations: Alanine aminotransferase, albumin, alkaline phosphatase, amylase, aspartate aminotransferase, bilirubin, calcium, chloride, cholesterol, cholesterol HDL, creatine phosphokinase, creatinine, gammaglutamyltransferase, glucose, iron, lactate, lactate dehydrogenase, lithium, magnesium, osmolality, phosphorus, potassium, protein, sodium, thyreotropin, thyroxine, thyroxine free, transferrin, transferrin receptor, triglycerides, urea, uric acid

Notes: This program combines internal and external quality assessment. Same sample is analyzed daily or weekly basis. Monthly averages and CV%'s are compared with other participants. Minimum order quantity of 10 bottles per year. Monthly reporting is included

q

10

11

17

Clinical chemistry » General short-term clinical chemistry, unknown concentration 1

1072, 1072S Serum A, lyophilized samples	•	•	•	•	•	•	•	•	•	•	•	•
Specimens: Lyophilized serum sample, 3 mL, samples are selected to cover a wide concentration range Examinations: Alanine aminotransferase, albumin, alkaline phosphatase, alpha-1-antitrypsin, alpha-1-glykoprotein, amylase, amylase (pancreatic),	osmo thyrox	lality, p	hosph yroxine	orus, p	otassiu	m, pro	tein, se	eleniun	n, sodiı	um, th	nucoid, yreotro glycerid	pin,
aspartate aminotransferase, bilirubin, calcium, calcium (ionized, actual), calcium (ionized, pH 7.4), chloride, cholesterol, cholesterol HDL, cholesterol LDL, cortisol, creatine phosphokinase, creatinine, ferritin, gamma-glutamyltransferase, glucose, haptoglobin, IgA, IgE, IgG, IgM,	proce: availa	s: Samp ssing o ble for not incl	f result laborat	s inclu tories p	ded. 10 Ierform	72S is ing tes	a limite sting of	ed vers 1–5 ar	ion of t alytes	he sch Produ		!S
	1	2	3	4	5	6	7	8	9	10	11	12
2050 Serum B and C (2-level)		•		•		•		•		•	•	

2

Specimens: 2 liquid human serum samples covering a wide concentration range, 3-5 mL

Examinations: Alanine aminotransferase, albumin, alfa-1-antitrypcine, alfa-1-glycoprotein, alkaline phosphatase, amylase, pancreas amylase, aspartate aminotransferase, bilirubin, ferritin, phosphate, glucose, glutamyltransferase, haptoglobin, IgA, IgE, IgG, IgM, potassium, calcium, ionized calcium, ionized calcium pH corrected (7.4), chloride, cholesterol,

HDL cholesterol, LDL cholesterol, cortisol, creatine kinase, creatinine, copper, lactate, lactate dehydrogenase, lipase, lithium, magnesium, sodium, osmolality, protein, iron binding capacity, iron, selenium, zinc, transferrin, transferrin receptor, triglycerides, tri-iodio-thyronine, thyrotropin, tyroxine, free tyroxine, urea, uric acid

Notes: Comparison of two different concentration ranges simultaneously. Reference method values available occasionally for some of the analytes.

Clinical chemistry » Special chemistry

innear chernistry » Special chernistry	1	2	3	4	5	6	7	8	9	10	11	12
2610 Acid-base status and electrolytes		•		•				•			•	
Specimens: 3 buffered artificial samples, 2.5 mL Examinations: Chloride, creatinine, glucose, ionized calcium, ionized magnesium, lactate, pCO2, pH, pO2, potassium, sodium, urea, base excess, HCO3.	Notes POCT		r one sa	imple s	et for e	each ar	nalyzer	. For cli	nical la	iborato	ries an	d
	1	2	3	4	5	6	7	8	9	10	11	1
2510 Alcohol in whole blood: Ethanol + methanol + isopropanol		2	•	4	5	6		0	5	•		
Specimens: Ethanol: 2-level whole blood samples. Methanol and isopropanol: 1-level whole blood samples.		inatior	ıs: Etha	anol, m	ethanc	ol, isop	ropano	I				
	1	2	3	4	5	6	7	8	9	10	11	1
2516 Alcohol in whole blood: Ethylene glycol			•							•		
Specimens: 1-level whole blood samples	Exam	inatior	ns: Ethy	/lene gl	ycol							
	1	2	3	4	5	6	7	8	9	10	11	1
2511 Alcohol in serum: Ethanol +methanol +isopropanol +acetone			•							•		
Specimens: Ethanol: 2-level serum samples. Methanol, isopropanol and acetone: 1-level serum samples.	Exam	ination	is: Etha	anol, m	ethand	ol, isop	ropano	l, aceto	one			
	1	2	3	4	5	6	7	8	9	10	11	1
2517 Alcohol in serum: Ethylene glycol			•							•		
Specimens: 1-level serum samples	Exam	ination	is: Ethy	/lene gl	ycol							
	1	2	3	4	5	6	7	8	9	10	11	1
 2105 Ammonium ion				•				•				
Specimens: 2 serum based or buffered samples	Exam	inatior	ıs: Amı	noniur	n ion							
	1	2	3	4	5	6	7	8	9	10	11	1
2210 Angiotensin convertase (ACE)					•							
Specimens: 1 liquid and 1 lyophilized human serum sample, 1 mL	Exam	ination	is: ACE									
	1	2	3	4	5	6	7	8	9	10	11	1
2520 Bile acids			•								•	
Specimens: 2 pooled human serum samples, 0.5 mL	Exam	inatior	ıs: Bile	acids								
	1	2	ч	4	5	6	7	8	q	10	11	1
2109 Bilirubin, conjugated		•		•				•		•		
Specimens: 2 lyophilized or liquid samples		inatior	ıs: Tota	ıl bilirul	bin, cor	njugate	ed bilirı	ubin				
	1	2	3	4	5	6	7	8	9	10	11	1
2040 Bilirubin, neonatal		•		•		•		•		•		
Specimens: 2 lyophilized or liquid samples		inatior	ıs: Bil,	1e0								
	1	2	3	4	5	6	7	8	9	10	11	1
8805 Cystatin C, Creatinine and eGFR [DEKS]						2 ti	mes					
Specimens: 2 human plasma samples with reference target values,		inatior	is: P-Cy	/statin	C, P-Cr	eatinir	ne, P-el	GFR				
0.75 mL	Notes	: Partio	cipatio	n to all	rounds	requir	ed.					

	1	2	3	4	5	6	7	8	9	10	11	12	
2754 Faecal elastase			•						•				2
Specimens: 2 lyophilized faecal specimens, 0.5 mL	Exami	nation	s: Elas	tase									NEW
2753 Gastric biomarkers	1	2	3	4	5	6	7	8	9	10	11	12	1
E) 		. Dan				-		7 Ualia		l n mulaui		
Specimens: 2 lyophilized samples, 3 mL	EXdiiii	nation	s: Pep	sinogei	п, Рер	isinoge	II II, Ud	ISUNIT-1	/, neiic	obacte	r µyıun	AU	
	1	2	3	4	5	6	7	8	9	10	11	12	
2150 Haemoxymeters			•						•				
Specimens: 2 liquid (1.2 mL) samples	Notes	: Order	one sa	imple s	set for e	each ar	nalyzer						
Examinations: F02Hb, FC0Hb, FMETHb, ctHb, s02													
	1	2	3	4	5	6	7	8	9	10	11	12	٦
8816 Homocysteine [DEKS])					4 ti	mes						
Specimens: 2 human plasma or serum samples	Notes	Partic	ipatio	n to all	rounds	i requir	ed.						
Examinations: P-Homocysteine													
8815 Methyl Malonic acid [DEKS]	1	2	3	4	5	6 5 ti	7 mes	8	9	10	11	12	1
1		Deutle											
Specimens: 2 human serum samples Examinations: P-Methylmalonat	Notes	Partic	іратіоі	1 to all	rounas	requir	ea.						
	1	2	3	4	5	6	7	8	9	10	11	12	
2651 Nasal swab cells												•]
Specimens: 4 digital images of MGG and methylene eosin stained samples	Exami	nation	s: Eosi	nophil	s, neut	rophils							
	1	2	3	4	5	6	7	8	9	10	11	12	
2652 Sputum cells		2					,					•]
Specimens: 4 digital images of MGG and methylene eosin stained samples	Exami	nation	s: Eosi	nophil	s, neut	rophils							
	1	2	3	. 4	5	. 6	7	8	9	10	11	12	
2640 Synovial fluid crystals			•						•			12]
Specimens: 2-3 slides prepared from patient samples	Exami	nation	s: Sod	ium ura	ate mo	nohydr	ate an	d calciu	ım pyro	ophosp	hate		
	dihydr	ate cry	stals										
	1	2	3	4	5	6	7	8	9	10	11	12	٦
2410 Therapeutic drugs)		•		•			•			•		
Specimens: 2 liquid or lyophilized human serum samples, 5 mL										henytoi e, tobrai			
Examinations: Amikasin, amitriptyline, carbamazepine, carbamazepine free, cyclosporine, digoxin, disopyramide, ethosuximide, flecainide, gentamycin,	tricycli									,	,,		
lidocaine, lithium, methotrexate, NAPA, netilmycin, nortriptyline,													
	1	2	3	4	5	6	7	8	9	10	11	12	
2480 Vitamin A, E and D metabolites				•							•		
Specimens: 2 liquid human serum samples, 1 mL. Pre- and/or post-analytical cases in part of the rounds.	Notes	: Target	t value	s for 2!	5(OH)D	vitami	in meta	abolite	are pro	ovided.			EQA₃
Examinations: Vitamin A, vitamin E, 25(OH)D-vitamin, 1,25(OH)2-D-vitamin,													w
pre- and/or post-analytical indicators													
2401 Vitamin A E and D motabolitor outra set of camples	1	2	3	4	5	6	7	8	9	10	11	12	7
2481 Vitamin A, E and D metabolites, extra set of samples	Neter	Orbel		-		hores	7400				-		-
Specimens: 2 liquid human serum samples, 5 mL	Notes			ection									
2525 5-hydroxyindoleacetic Acid (5-HIAA)	1	2	3	4	5	6	7	8	9	10	11	12	ſ
												1	
Specimens: 2 serum samples	Exami	nation	s: 5-H	AA									

Clinical chemistry » Specific proteins

Ì		1	2	3	4	5	6	7	8	9	10	11	12
	2020 C-reactive protein (CRP) for analyzers		•		•		•		•		•		•
	Specimens: 2 liquid serum or plasma samples, 1 mL Examinations: CRP	scherr	ne 2132	for PO	CT CRP	meter	s. If yo	u are r	emistry not sure ur custo	wheth	ier you		e is
		1	2	3	4	5	6	7	8	9	10	11	12
	2132 C-reactive protein (CRP), POCT		•		•		٠		•		•	•	
POCT	Specimens: 2 human plasma samples, 1 mL Examinations: CRP								i. If you se conta				
		1	2	3	4	5	6	7	8	9	10	11	12
	2140 Decialotransferrin [EQUALIS]	•		•		•			•		•		•
	Specimens: 2 human plasma samples, varying concentration of CDT Examinations: CDT	Notes	: Partic	ipation	i to all i	rounds	requir	ed.					
		1	2	3	4	5	6	7	8	9	10	11	12
	2751 Faecal calprotectin)	•			•			•			•	
	Specimens: 2 lyophilized faecal specimens, 0.5 mL	Exami	nation	s: Calpi	rotectii	1							
		1	2	3	4	5	6	7	8	9	10	11	12
	2281 Interleukin-6)	•			•			•			•	
	Specimens: 2-3 lyophilized samples	Exami	nation	s: IL-6									
		1	2	2		-	c	7	0	0	10	11	17
	2200 Lipids and lipoproteins		•	3	4	•	Ь	/	8	•	10	11	12
EQA₃	3 Specimens: 2 fresh human serum samples, 0.5–1 mL. Pre- and/or post- analytical cases in part of the rounds.			po A2, l lost-an				oprote	ein (a), 1	triglyce	erides,		
	Examinations: Cholesterol, HDL cholesterol, LDL cholesterol, lipoprotein apo A1,			ate rou				ieme 2	202				
		1	2	3	4	5	6	7	8	9	10	11	12
	2202 Lipoprotein a)	•			•				•			•
	Specimens: 1 liquid or lyophilized human serum preparation	Exami	nation	s: Lp(a))								
L		1	2	3	4	5	6	7	8	9	10	11	12
	2280 Procalcitonin	<u>۱</u>			•						•		
	Specimens: 2 lyophilized samples Examinations: Procalcitonin	Notes	: Only f	for quar	ntitativ	e meth	nods						
		1	2	3	4	5	6	7	8	9	10	11	12
	2160 Proteins in cerebrospinal fluid				•					•			
	Specimens: 1 cerebrospinal fluid sample 1-3 mL and 1 human serum sample, 1 mL			s: Cerel min, Ig(ial fluic	l: Albu	min, lg	gG, tota	l prote	in, IgG	index.	
		1	2	3	4	5	6	7	8	9	10	11	12
~	2240 Proteins, electrophoresis)	•			•			•			•	
EQA³	Specimens: 2 liquid or lyophilized human serum samples, 1 mL Pre- and/or post-analytical cases in part of the rounds.			s: Elect licators		esis, co	ontains	s immı	unofixa	tion, p	re- anc	l/or po	st-
	2230 Proteins, immunochemical determinations	1	2	3	4	5	6	7	8	9	10	11	12
			с					-					
	Specimens: 2 liquid human serum samples, 1 mL Examinations: Alpha-1-antitrypsin, alpha-2-macroglobulin, albumin, ceruloplasmin, complement C3, complement C4, haptoglobin, hemopexin,		_		-		-		ree, IgLo ansferr			, IgM,	
L													

Clinical chemistry » Tumour markers

	1	2	3	4	5	6	7	8	9	10	11	12
2703 Anti-Müllerian hormone 3		•			•			•			•	
Specimens: 2 liquid human serum samples, 1 mL	Exam	inatio	ns: Ant	i-Mülle	rian ho	rmone						
	1	2	3	4	5	6	7	8	9	10	11	12
2226 Prostate specific antigen		•		•			•			•		
Specimens: 2 liquid human serum samples, 1 mL	Exam	inatio	ns: PSA	, comp	lexed F	PSA, fre	e PSA	, free/t	otal PS	5A ratio)	
	1	2	3	4	5	6	7	8	9	10	11	12
2700, 27005 Tumour markers		•			•			•			•	
Specimens: 2 liquid human serum samples, 2 mL	Note	s: 2700	IS is a li	mited v	ersion	of the	schem	ie avail	able fo	r labora	atories	
Examinations: AFP, CA 125, CA 153, CA 199, CEA, ferritin, hCG (total, intact, beta-subunit), PSA, PSA free, PSA free/total index, TG, TG antibodies,				of 1–5 a /zers or			luct 27	00S do	es not	include	e report	ting
beta-2-microglobulin, NSE, HE4												
	1	2	3	4	5	6	7	8	9	10	11	12
2701 Tumour markers, extra set of samples		•			•			•			•	
Specimens: 2 liquid human serum samples, 2 mL	Note	s: Only	in conr	ection	with so	heme	2700					

Clinical chemistry » Urine analysis

		1	2	3	4	5	6	7	8	9	10	11	12
3240 Albumin and creatinine in urine	3				•						•		
Specimens: 2 liquid human urine samples with spiked albumin and creatinine, 4 mL						reatinir ve metl		umin-c	reatini	ne ratio	0		
		1	2	3	4	5	6	7	8	9	10	11	12
300 Drug of abuse screening in urine	3		•				•			•			
Specimens: 2 authentic samples, 5 mL Examinations: Alpha-PVP, Amphetamine, Barbiturates, Benzodiazepines, Buprenorphine, Cannabinoids, Carbamazepine, Cocaine +metabolites, Codeine, Dextropropoxyphene, EDDP, Fencyclidine, Fentanyl, Gammahydroxybutyrate (GHB), Ketamine, LSD, MDMA, MDPV, Metamphetamine, Methaqualone, Methadone +metabolites, Methylphenidate, Morphine, Opiates Oxycodone, Paracetamol, Pregabalin, Salicylate, Tricyclic- antidepr. Tramadol			natory					T sites. Its are i				or	
		1	2	3	4	5	6	7	8	9	10	11	12
3270 Pregnancy test	3			•		•				•		•	
Specimens: 2 fresh urine samples, 1 mL Examinations: Qualitative hCG		Notes	: For c	linical	aborat	ories ai	nd POC	T sites					
		1	2	3	4	5	6	7	8	9	10	11	12
170 Urine bacterial screening with automated analyzers	\bigcirc				•							•	
Specimens: 1 liquid sample and lyophilized synthetic urine sample ontaining bacteria.	3	Exami	inatior	1s: Bac	terial, e	erythro	cytes a	and leul	kocyte	s count	ting	1	
		1	2	3	4	5	6	7	8	9	10	11	12
200 Urine, identification of cells and other particles (digital images)	(1)		•			•			•			•	
Specimens: 4 digital images		Exami	inatior	1s: Idei	ntificat	ion of a	ells an	nd othe	r partio	les			

	1	2	3	4	5	6	7	8	9	10	11	12
3160 Urine quantitative chemistry	3		•		•				•			•
Specimens: 1 liquid urine, 10 mL	glucos	e, inoi	rganic	umin, a phosph nsity, s	, ate, ma	ignesiu	ım, osr	nolalit				ine,
	1	2	3	4	5	6	7	8	9	10	11	12
3100 Urine strip test A	3	•		•				•		•		
Specimens: 1 lyophilized urine sample with varying concentrations, 15 mL Examinations: Glucose, ketone bodies, leukocytes, nitrite, pH, protein, blood (erythrocytes), relative density				laborato me 3101						ssolutio	on	
	1	2	3	4	5	6	7	8	9	10	11	1.
3101 Urine strip test A, 15 mL water for sample dissolution		•		•				•		•		
Specimens: 15 mL water for dissolution of samples of scheme 3100	Notes	: Only	in coni	nection	with s	cheme	3100					
	1	2	3	4	5	6	7	8	9	10	11	1
3130 Urine strip test B, particle count and estimation of density	3		•		•				•			
Specimens: 1 lyophilized urine, 15 mL Examinations: Particle count: erythrocytes and leukocytes. Estimation of density: creatinine, relative density, osmolality. Strip tests: glucose, ketone bodies, leukocytes, nitrite, pH, protein, blood (erythrocytes).	counti only be used b	ng). T e colle ly diffe lyoph	he arbi cted ir erent s	le for au trary co order t trip tes ample a	ncentr o avoic ts and	ations I differ user la	of the ent gro borato	obtain oupings ries. W	ed strip of pos ater fo	p test r sitive ca r disso	esults ategori lution	will
	1	2	3	4	5	6	7	8	9	10	11	12
3131 Urine strip test B, 15 mL water for sample dissolution			•		•				•			
Specimens: 15 mL water for dissolution of lyophilized samples of scheme 3130	Notes	Only	in coni	nection	with so	heme	3130					

Clinical chemistry and haematology

Clinical chemistry and haematology » Percentiler and flagger programs

	1	2	3	4	5	6	7	8	9	10	11	12
3501 Flagger program (Noklus)											•	
Specimens: The percentage of patient results outside the reference limits Examinations: ALP, ALT, AST, bilirubin, BUN, calcium, cholesterol, chloride, creatinine, CRP, ferritin, folate, FT4, GGT, glucose, Hb, HbA1c, HDL-cholesterol, IgA, IgG, IgM, IgA, K, LDH, MCV, magnesium, Na, phosphate, PLT, protein, PSA, PTH, RBC, triglycerides, TSH, urea, uric acid, vitamin B12, vitamin D, WBC	labora term s	tories i tability	, results y of pei	oant wi and all rformai ercenti	owing nce and	dynam I flaggi	ic on-ling rate	ine mo	nitorin	g of mi	d-to lo	ng-
3500 Percentiler program (Noklus)	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: results from selected patient groups are used to calculate instrument-specific daily medians				g labora Datient							· ·	с

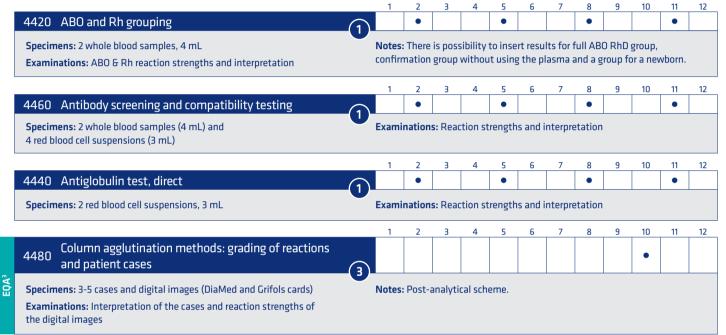
Examinations: ALP, ALT, AST, bilirubin, BUN, calcium, cholesterol, chloride, creatinine, CRP, ferritin, folate, FT4, GGT, glucose, Hb, HbA1c, HDL-cholesterol, IgA, IgG, IgM, IgA, K, LDH, MCV, magnesium, Na, phosphate, PLT, protein, PSA, PTH, RBC, triglycerides, TSH, urea, uric acid, vitamin B12, vitamin D, WBC

Notes: Participating laboratories calculate, and report instrument-specific medians based on patient results. The total number of patient results is also reported. Ideally, patient medians are reported daily, but less frequent reporting is also possible. Results are exported to a central database by standardized e-mails.

Haematology

The haematology selection consists of schemes for blood transfusion serology, cell count and morphology as well as coagulation tests. Specialties include the Erythrocyte sedimentation rate for Alifax as well as the White blood cell count and INR schemes for POCT. Units performing blood transfusions find EQA schemes for hepatitis B and C, HIV as well as other infectious diseases under the microbiology portfolio. **Schemes related to blood parasites can be found under the parasites chapter.**

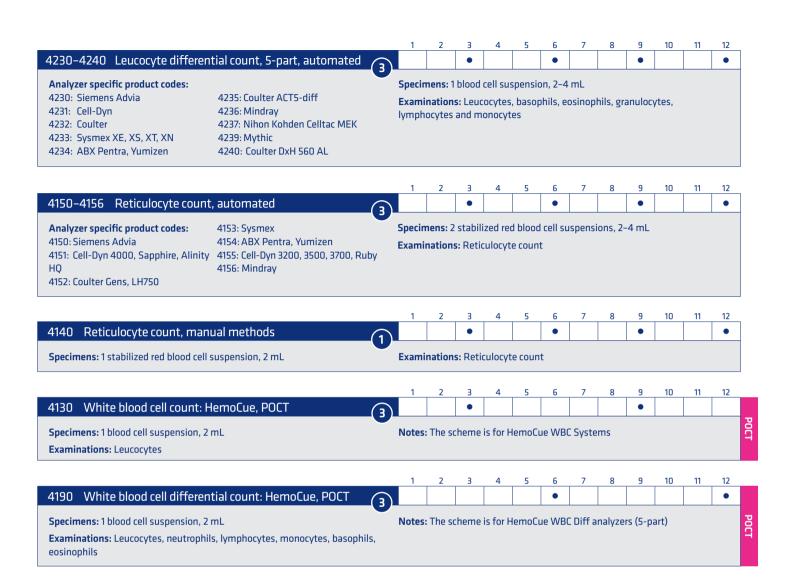
Haematology » Blood transfusion serological tests



Haematology » Cell count and cell morphology

		1	2	3	4	5	6	7	8	9	10	11	12
4100	Basic blood count, 1-level sample	•	•	•	•	•	•	•	•	•	•	•	•
Specim	nens: 1 blood cell suspension, 3 mL	Exam	ination oution v									C, MCV	
		1	2	3	4	5	6	7	8	9	10	11	12
4110	Basic blood count, 2-level samples		•	•	•	•	•	•	•	•	•	•	•
Specim	nens: 2 blood cell suspensions, 3 mL		ination oution (neans	of MCH	I, MCHI	C, MCV	
4180	Leucocyte differential count and evaluation of blood cell morphology, virtual microscopy		2	3	4	•	6	7	8	9	10	11	12
Specim	nens: 2-3 patient cases as virtual slide images		ination	is: Leud	cocyte (differer	ntial co	unt an	d evalı	iation	of red b	lood ce	ells
		1	2	3	4	5	6	7	8	9	10	11	12
4200-	-4201 Leucocyte differential count, 3-part, automated			•			•			•			•
-	ver specific product codes: ABX, Advia, Cell-Dyn, Coulter, Medonic, Mindray, Nihon Kohden Celltac MEK	Speci Exam	mens: î ination and grai	is: Abs	olute n	· ·			s, lymp	hocyte	es, mor	onucle	ar

VIRTUAL



Haematology » Coagulation

		1	2	3	4	5	6	7	8	9	10	11	12
4330 Activated partial thromboplastin time, INR and fibrinogen	3		•			•			•			•	
Specimens: 2 lyophilized plasma samples, 0.5-1 mL		Exami	nation	i s: Coa	gulatio	n time	in secc	onds, fi	brinog	en, INF	ł		
		1	2	3	4	5	6	7	8	9	10	11	12
4387 Anticoagulants: LMW-Heparin/antiFXa	3		•			•			•			•	
Specimens: 2 lyophilized plasma samples, 0.5–1 mL		Exami	nation	is: LM\	N-hepa	arin/an	tiFXA						
		1	2	3	4	5	6	7	8	9	10	11	12
4388 D-dimer			•			•			•			•	
Specimens: 2 liquid commercial plasma samples, 0.5 mL Examinations: D-Dimer		Notes	: For cl	inical I	aborat	ories ar	nd POC	T sites					
		1	2	3	4	5	6	7	8	9	10	11	12
4335 INR, CoaguChek, i-STAT and Siemens Xprecia, POCT	3					•						•	
Specimens: Liquid or lyophilized sample		Notes	: Only t	for Coa	guChe	k, i-STA	Tand	Siemer	ns Xpre	cia me	eters		
Examinations: Prothrombin time in INR unit													

		1	2	3	4	5	6	7	8	9	10	11	12
4337 INR, EuroLyzer, POCT	3					•						•	
Specimens: 1 lyophilized plasma sample		Notes	: Only	For Euro	DLyzer l	NR me	eter						
Examinations: Prothrombin time in INR unit													
		1	2	3	4	5	6	7	8	9	10	11	12
4340 INR, LabPad, POCT						•						•	
Specimens: 1 dried whole blood sample		Notes	: Only	for Lab	Pad INI	R mete	ers						
Examinations: Prothrombin time in INR unit													
		1	2	3	4	5	6	7	8	9	10	11	12
4338 INR, MicroINR, LumiraDX and CoagSense, POCT	3					•						•	
Specimens: Lyophilized whole blood sample or lyophilized plasma sample		Notes	: Only t	for mic	roINR,	Lumira	aDX and	d Coags	Sense i	meters			
Examinations: Prothrombin time in INR unit													
		1	2	з	4	5	6	7	8	٩	10	11	12
4300 Prothrombin time	3		•			•			•			•	
Specimens: 2 lyophilized plasma samples, 0.5–1 mL		Exam	ination	s: Prot	hrombi	in time	e, PT%						
		1	2	3	4	5	6	7	8	9	10	11	12
4386 Special coagulation	3		•			•			•			•	
Specimens: 2 lyophilized plasma samples, 0.5–1 mL		Exam	nation	s: Thro	mbin t	ime. A	ntithro	mbin.	Factor	VIII. Pr	otein (. Prote	in S

EQA schemes for blood banks

Blood transfusion serology

4420 ABO and Rh grouping 4460 Antibody screening and compatibility testing 4440 Antiglobulin test, direct 4480 Column agglutination methods: grading of reactions and patient cases

Bacterial serology

5880 Syphilis serology

Bacteriology

5100 Blood culture5101 Blood culture, screening

Virology, serological tests

5650 Cytomegalovirus, antibodies
5092 Hepatitis A, antibodies
5093 Hepatitis B, s-antigen antibodies, quantitative
5094-5096 Hepatitis B and C, serology
5091 HIV, antibodies and antigen detection
5089 Human T-cell lymphotropic virus, antibodies
5660 Parvovirus B19, antibodies

Virology, molecular tests

5679 Hepatitis B virus, nucleic acid detection (DNA)5678 Hepatitis C virus, nucleic acid detection (RNA)5680 HIV-1, nucleic acid detection (RNA)

EQA services for POCT sites

Patient outcome is associated with obtaining a reliable test result regardless of where the testing is performed. To ensure high quality of care and patient safety, it is imperative that point-of-care testing (POCT) is subjected to the same quality requirements as conventional laboratory analyses.

Labquality offers a range of EQA schemes suitable for POCT sites. These services are intended for all testing units including home/community nursing, hospital wards, pediatric clinics, surgical units, occupational healthcare, outpatient clinics and medical centers.

Clinical chemistry

- 2610 Acid-base status and electrolytes
- 3240 Albumin and creatinine in urine
- 2100 Basic chemistry, POCT analyzers
- 2132 C-reactive protein (CRP), POCT
- 3300 Drug of abuse screening in urine
- 2750 Faecal occult blood, qualitative 2749 Faecal occult blood, quantitative
- 2570. 2580. 2590 Glucose meters
- 1263 Haemoglobin A1c, liquid samples, POCT
- 2114 Haemoglobin, 1-level, POCT
- 2112 Haemoglobin, 3-level samples, POCT
- 2526 Ketones (beta-hydroxybutyrate), POCT
- 2690 Natriuretic peptides 1, B-type, NT-ProBNP
- 2691 Natriuretic peptides 2, B-type, BNP
- 3270 Pregnancy test
- 2530 Troponin I and Troponin T, detection, POCT
- 3100 Urine strip test A
- 2115 Haemoglobin, 1-level HemoCue 801 and HemoCue 301

Haematology

- 4388 D-Dimer
- 4335 INR, CoaguChek, i-STAT and Siemens Xprecia, POCT
- 4337 INR, EuroLyzer, POCT
- 4340 INR LAbPad, POCT
- 4338 INR, MicroINR, LumiraDX and CoagSense, POCT
- 5430 Malaria, antigen and nucleic acid detection
- 4130 White blood cell count: HemoCue, POCT
- 4190 White blood cell differential count: HemoCue, POCT

Microbiology

- 5640 EBV mononucleosis, POCT
- 5635 Dengue virus, antibodies and antigen detection
- 5860 Helicobacter pylori, antibodies
- 5596 Helicobacter pylori, antigen detection in faeces
- 5090 HIV, antibodies and antigen detection, POCT
- 5671 Influenza virus A+B, antigen detection
- 5597 Legionella, antigen detection in urine
- 5430 Malaria, antigen and nucleic acid detection
- 5980 Mycoplasma pneumoniae, antibodies
- 5560 Puumala virus, antibodies
- 5673 Respiratory adenovirus, antigen detection
- 5098 Rotavirus and adenovirus, antigen detection
- 5672 RS virus, antigen detection
- 5677 SARS CoV-2, antibodies
- 5681 SARS-CoV-2 antigen detection
- 5676 SARS-CoV-2 nucleic acid detection
- 5595 *Streptococcus pyogenes*, group A, antigen detection in pharyngeal sample
- 5599 Streptococcus agalactiae (GBS), nucleic acid detection
- 5598 Streptococcus pneumoniae, antigen detection in urine
- 5099 Tick-borne encephalitis virus, antibodies
- 5473 Trichomonas vaginalis, detection

Preanalytics

7801 Preanalytics, urine and blood sample collection7804 Preanalytics, POCT in chemistry

Immunology

This program includes schemes for immunodiagnostic tests such as those for coeliac disease, rheumatoid factor and thyroid gland autoantibodies. All of the schemes involve analysis of liquid human serum or plasma samples. For allergy diagnostics, review the allergology program in the clinical chemistry portfolio.



Microbiology

The microbiological EQA programs are suitable for clinical laboratories and POCT sites performing testing in the areas of bacterial serology, bacteriology, mycology, parasitology and virology. While the selection includes schemes for antigen detection, antibody detection, culture, microscopy, and PCR tests, solutions for versatile needs are available. Authentic single donor samples are included in multiple schemes.

Microbiology » Bacterial Serology

57 57		1	2	3	4	5	6	7	8	9	10	11	12
5840 Antistreptolysin	3*		•			•			•			•	
Specimens: 2 liquid human serum or plasma samples, 0.4 mL Authentic, commutable, single donor samples.		Exami	natio	ns: Qua	litative	e and qi	uantita	itive AS	50				
		1	2	3	4	5	6	7	8	9	10	11	12
5950 Bordetella pertussis, antibodies		•			•				•			•	
Specimens: 2 liquid human serum samples, 0.3 mL				ns: B. p iost-ana						, Pertu	ssis to	kin IgA,	
		1	2	3	4	5	6	7	8	9	10	11	12
5960 Borrelia burgdorferi, antibodies, European origin		•			•				•			•	
Specimens: 2 liquid human serum or plasma samples, 0.5 mL Authentic, commutable, single donor samples.				ns: B. b rpretati	-	feri IgG	, IgM a	nd tota	al antib	odies,	post-a	nalytic	al
		1	2	3	4	5	6	7	8	9	10	11	12
5965 CXCL 13 Chemokine	3	•					•						
Specimens: 2 liquid samples		Exami	natio	ns: Che	mokine	e CXCL1	3 dete	ction					
		1	2	3	4	5	6	7	8	9	10	11	12
620 Chlamydia pneumoniae, antibodies	3			•			•			•			•
Specimens: 3 liquid serum or plasma samples, 0.4 mL				rpretati 3		5	6	7	8	9	t-analy	11	12
5851 Francisella tularensis, antibodies					•						•		
Specimens: 3 liquid human serum or plasma samples, 0.5 mL		Exami	natio	ns: Frai	ncisella	ı tulareı	nsis IgC	i, IgM a	and tot	al anti	bodies		
		1	2	3	4	5	6	7	8	9	10	11	12
5860 Helicobacter pylori, antibodies	3			•			•			•			•
Specimens: 2 liquid human serum or plasma samples, 0.4 mL Examinations: <i>H. pylori</i> IgA, IgG and total antibodies, quantitative and				tests, p linical l						on			
		1	2	3	4	5	6	7	8	9	10	11	12
5980 Mycoplasma pneumoniae, antibodies	3*)		•			•				•		•	
Specimens: 2 liquid human serum or plasma samples, 0.3 mL Authentic, commutable, single donor samples.		clinica	l intei	ns: <i>M. µ</i> rpretati :linical l	on	-				tibodie	s, post	-analyt	ical
		1	2	3	4	5	6	7	8	9	10	11	12
5880 Syphilis serology	3*		•				•				•		•
Specimens: 2 liquid human serum samples, 0.6 mL Authentic, commutable, single donor samples.				ns: Caro pretati		ı, Trepoi	nema p	allidur	n antit	oodies,	, post-a	inalytic	al

Microbiology » Bacteriology

	1	2	3	4	5	6	7	8	9	10	11	12
050 Bacteriological staining, direct (digital images)				•						•		
Specimens: 3 cases, 3-9 digital images	Exam			pretati 1 stainii					from	direct		
	1	2	3	4	5	6	7	8	9	10	11	12
5100 Blood culture			•		•	-				•		•
Specimens: 2 lyophilized samples. Brief case histories are also given. Fresh blood is needed for specimen preparation. The samples intended for susceptibility testing may include both international quality control strains and susceptible or resistant clinical strains.	Exam			ure, idei is neede								
	1	2	3	4	5	6	7	8	9	10	11	12
5101 Blood culture, screening 1)		•		•					•		•
Specimens: 2 lyophilized samples. Brief case histories are also given. Fresh olood is needed for sample preparation.	The so	heme	is also s	ure, pre suitable h blood	for st	em cel	l bank	s screer	ning or	nly for p	possible	2
	1	2	3	4	5	6	7	8	9	10	11	12
5150 Cerebrospinal fluid, bacterial culture		•			•				•			•
Specimens: 2 lyophilized samples. Brief case histories are also given. Examinations: Culture and identification. The scheme is also suitable for laboratories performing screening and reporting merely a preliminary identification.	Notes detect		lso sche	eme 53	D3 Mer	ningiti	s-ence	phalitis	s multi	plex, n	ucleic a	cid
	1	2	3	4	5	6	7	8	9	10	11	12
5612 <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> nucleic acid detection			•		•			•			•	
Specimens: 3 simulated swab/urine samples, 2 mL Examinations: Detection of <i>C. trachomatis</i> and <i>N. gonorrhoeae</i> nucleic acid	Notes		lso sche letectio	eme 53 on	02 Sex	ually t	ransm	itted di	sease	s multi	plex,	
	1	2	3	4	5	6	7	8	9	10	11	12
5200 <i>Clostridioides difficile</i> , culture and toxin detection)	•			•			•			•	
Specimens: 2 lyophilized mixtures of bacteria	(GDH)	, toxin	detecti	scheme on and so inclu	direct					-		
	1	2	3	4	5	6	7	8	9	10	11	12
5202 <i>Clostridioides difficile</i> , extra set of samples		•			•			•			•	
Specimens: 2 lyophilized mixtures of bacteria	Notes	: Only i	n conn	ection v	vith sc	heme	5200					
	1	2	3	4	5	6	7	8	9	10	11	12
5201 <i>Clostridioides difficile</i> , nucleic acid detection		•			•			•			•	
Specimens: 2 lyophilized mixtures of bacteria	Exam diffici	<i>le</i> strai	ns also	fficile d include es also t	d.			tection	і. Нуре	ervirule	nt C.	
5191 Eastal bactorial pathogons multiploy, pushis asid dotaction	1	2	3	4	5	6	7	8	9	10	11	12
5191 Faecal bacterial pathogens multiplex, nucleic acid detection				-		•				-		•
 Specimens: 3 samples. Either lyophilized mixtures of bacteria and/or simulated samples, 1 mL. Examinations: Direct nucleic acid detection. Pathogens included are Aeromonas, Campylobacter, <i>E. coli</i> EHEC (stx1/stx2), <i>E. coli</i> EAEC, <i>E. coli</i> EIEC, 	Notes	: Durin	g the p	eriod of Il be cov	one ca				-			of

	1	2	3	4	5	6	7	8	9	10	11	12
5230 Mycobacterium tuberculosis, drug resistance			•			•			•			•
ipecimens: 2 simulated samples, 1 mL					rium tu d susce			leic aci	d dete	ction, r	ifampi	cin
	1	2	3	4	5	6	7	8	9	10	11	12
i190 Faecal culture)			•		•				•		•
Specimens: 2 lyophilized mixtures of bacteria					d direct acter, P					5		
5080 General Bacteriology 1 (aerobes and anaerobes)	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 4 lyophilized mixtures of microbes: both pathogens and normal flora. The samples intended for susceptibility testing may include both international quality control strains and susceptible or resistant clinical strains. Brief case histories are also given. Pre- and/or post-analytical cases in part of the rounds.	testin	g, pre-	and/or	r post-	f patho analyti 1, Gene	cal case	es		oial sus	ceptibi	ility	
5081 General Bacteriology 2 (aerobes)	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 lyophilized mixtures of microbes: both pathogens and normal		ination		ation o	f patho	agenc a	nd ant	imicrob	hial cur	contib	ility	•
flora. The specimens intended for susceptibility testing may include both international quality control strains and susceptible or resistant clinical strains. Brief case histories are also given. Pre- and/or post-analytical cases in part of the rounds.	testin	g, pre-	and/or	r post-	analyti eriolog	cal case	es		Jiai 503	iceptibl	inty	
	1	2	3	4	5	6	7	8	9	10	11	12
5041 Gram stain, blood culture	•			•			•			•		
Specimens: 2 air-dried, unfixed microbe suspensions on slides. Brief case histories also given.	Exam	ination	is: Stai	ning a	nd mici	roscopy	1					
5040 Gram stain, colonies	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 3 air-dried, unfixed microbe suspensions on a slide	Exam	ination	s: Stai	ning a	nd micr	roscopy	1					
	1	2	3	4	5	6	7	8	9	10	11	12
5596 <i>Helicobacter pylori</i> , antigen detection in faeces			•			•			•			•
Specimens: 3 samples: lyophilized faecal or swab Examinations: Antigen detection		: For cl	inical la	aborat	ories ar	nd POC	T sites					
	1	2	3	4	5	6	7	8	9	10	11	12
5597 Legionella, antigen detection in urine)		•		•				•			•
Specimens: 3 simulated urine samples	Exam	ination	s: Legi	ionella	antige	n deteo	tion					
	1	2	3	4	5	6	7	8	9	10	11	12
5220 Mycobacterial culture and stain			•			•			•			•
Specimens: 2 lyophilized samples and 2 fixed smears on slides Examinations: Detection of <i>Mycobacterium tuberculosis, Mycobacterium</i> tuberculosis complex and atypical mycobacteria: culture, direct nucleic acid					ng and 250 IGF			rculosi	5			
5221 Mycobacterial nucleic acid detection	1	2	3	4	5	6	7	8	9	10	11	12
	Nete	. 5220	include		this au	amina	tion F	v addit	-	ot of -	meles	-
Specimens: 2 lyophilized samples Examinations: Direct nucleic acid detection		schem		es aiso	this ex	amina			ional S	et of S	ampies	o,
	1	2	3	4	5	6	7	8	9	10	11	12
5222 Mycobacteria, extra set of samples			•			•			•			•

	1 2 3 4 5 6 7 8 9 10 11	12
5240 Mycobacterial stain		•
Specimens: 2 fixed smears on slides	Examinations: Acid-fast staining and microscopy	
	1 2 3 4 5 6 7 8 9 10 11	12
5120 Neisseria gonorrhoeae (Gc), culture and susceptibility testing		
Specimens: 2 lyophilized mixtures of microbes. The samples intended for susceptibility testing may include both international quality control strains and susceptible or resistant clinical strains.	Examinations: Culture, identification and antimicrobial susceptibility testin Also suitable for laboratories performing preliminary screening.	ıg.
	1 2 3 4 5 6 7 8 9 10 11	12
5180 Salmonella culture		٠
Specimens: 2 lyophilized mixtures of bacteria Examinations: Culture	Notes: 5190 also includes 5180	
	1 2 3 4 5 6 7 8 9 10 11	12
5599 Streptococcus agalactiae (GBS), nucleic acid detection	(3*) •	
Specimens: 2 swab samples. Samples also include normal flora. Examinations: Direct nucleic acid detection	Notes: See also product 5594 for <i>S. agalactiae</i> (GBS) culture.	
	1 2 3 4 5 6 7 8 9 10 11	12
5594 Streptococcus agalactiae (GBS), culture		
Specimens: 2 lyophilized samples. Samples include pathogens and/or normal flora.	Examinations: Culture Notes: See also product 5599 for direct nucleic acid detection.	
	1 2 3 4 5 6 7 8 9 10 11	12
5598 Streptococcus pneumoniae, antigen detection in urine		•
Specimens: 3 simulated urine specimens	Examinations: <i>S. pneumoniae</i> antigen detection	
	1 2 3 4 5 6 7 8 9 10 11	12
5595 <i>Streptococcus pyogenes</i> (Group A), antigen detection in pharyngeal sample		•
Specimens: 3 simulated pharyngeal samples Examinations: Antigen detection	Notes: For clinical laboratories and POCT sites. Three results if used different kits.	nt
	1 2 3 4 5 6 7 8 9 10 11	12
5593 <i>Streptococcus pyogenes</i> (Group A), nucleic acid detectior pharyngeal sample		•
Specimens: 3 simulated pharyngeal samples Examinations: Nucleic acid dete		
	1 2 3 4 5 6 7 8 9 10 11	12
5073 Surveillance for multidrug resistant bacteria, gramnegative rods		
Specimens: 1 lyophilized mixture of microbes; including pathogens and/or normal flora	Examinations: The scheme is intended for laboratories performing screenir of multidrug resistant gramnegative rods (e.g. CPE, ESBL, MDR <i>Acinetobaci</i> and <i>P. aeruginosa</i>) by culture and/or direct nucleic acid detection method	
	1 2 3 4 5 6 7 8 9 10 11	12
5071 Surveillance for multidrug resistant bacteria, MRSA		14
Specimens: 1 lyophilized mixture of microbes; including pathogens and/or normal flora	Examinations: The scheme is intended for laboratories performing screenin of MRSA (methicillin resistant <i>Staphylococcus aureus</i>) by culture and/or direct nucleic acid detection method	ıg

	1	2	3	4	5	6	7	8	9	10	11	12
5072 Surveillance for multidrug resistant bacteria, VRE		•				•			•		•	
Specimens: 1 lyophilized mixture of microbes; including pathogens and/or normal flora	of VRE	nation E (vanco etection	omycir	n-resist						_	-	_
	1	2	3	4	5	6	7	8	9	10	11	12
140 Throat streptococcal culture			•		•			•			•	
ipecimens: 3 lyophilized mixtures of bacteria		nation	s: Cult	ure and	l ident	ificatio	n of gro	oup A,	C and (G strep	tococci	I
060 Urine culture, quantitative screening	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 lyophilized samples and dilutor. Brief case histories also given. Pre- and/or post-analytical cases in part of the rounds.	Exami	nations Scherr ers.			1 - C					·		ors
	1	2	3	4	5	6	7	8	9	10	11	12
065 Urine culture, quantitative screening, identification and susceptibility			•			•			•			•
pecimens: 2 lyophilized samples and dilutor. Brief case histories also ven. The samples intended for susceptibility testing may include both ternational quality control strains and susceptible or resistant clinical trains. Pre- and/or post-analytical cases in part of the rounds.	suscep	nation: otibility : Scherr ers.	testir	ng, pre-	and/oi	post-a	analytic	al indi:	cators			
crobiology » Mycology	1	2	3	4	5	6	7	8	9	10	11	12
261 Fungal infections, nucleic acid detection				•						•		
pecimens: 3-4 simulated samples. The samples may include yeasts, lermatophytes and moulds. Examinations: Nucleic acid detection according o laboratory's own test selection.	Notes	: Test se process		n of th	e parti	cipatin	g lab is	taken	into co	onsider	ation i	1
	1	2	3	4	5	6	7	8	9	10	11	12
260 Fungal culture			•		•				•		•	
Specimens: 3 lyophilized samples. Brief case histories also given. The samples include moulds, dermatophytes and yeasts.		nation st strai		ure and	l ident	ificatio	n. Anti	microt	oial sus	ceptibi	lity tes	ting
isvobiology u Devesitelegy												
icrobiology » Parasitology	1	2	3	4	5	6	7	8	9	10	11	12
6472 Faecal parasites multiplex, nucleic acid detection		•			•			•			•	
pecimens: 3 lyophilized samples		nation s, Entar							lium, D	ientam	noeba	
	1	2	2	4	5	6	7	8	0	10	11	12
430 Malaria, antigen and nucleic acid detection	*	•	5		•		,	•			•	
Specimens: 3 whole blood samples		: For cli	nical l	aborato	prios pr		Ticitor		1	1	1	
Examinations: Antigen and nucleic acid detection. Target antigens: HRP2 and/or pLDH and/or aldolase.	Notes	. FUI CII	i iicai ia	aborati	JIES al		I Siles					
	1	2	3	4	5	6	7	8	9	10	11	12
462 Malaria screening, Giemsa stain		•			•			•			•	
Specimens: 2 methanol fixed or Giemsa stained smears. Brief case histories also given.	Exami	nations	: Prelir	minary	screeni	ng of n	nalaria (olasmo	odia			
	1	2	3	4	5	6	7	8	9	10	11	12
3463 Malaria screening, MGG stain		•			•			•			•	
Specimens: 2 methanol fixed or May-Grünwald-Giemsa stained smears. Brief	Exami	nations	: Prelir	minary	screeni	ng of n	nalaria (olasmo	odia			

		1	2	3	4	5	6	7	8	9	10	11	12
	5460 Parasites in blood, Giemsa stain		•			•			•			•	
	Specimens: 2 methanol fixed or Giemsa stained smears. Brief case histories also given.	Exami blood			ening a	and ide	ntificat	ion of	malaria	a plasn	nodia a	ind oth	ier
		1	2	3	4	5	6	7	8	9	10	11	12
AL	5470 Parasites in blood, Giemsa stain, virtual microscopy)										•	
VIRTUAL	Specimens: 2 virtual whole slide images of Giemsa stained smears prepared by using a scanner microscope. Brief case histories also given.	Exami blood			ening a	and ide	ntificat	tion of	malaria	a plasr	nodia a	and oth	ier
		1	2	3	4	5	6	7	8	9	10	11	12
	5461 Parasites in blood, MGG stain		•			•			•			•	
	Specimens: 2 methanol fixed or May-Grünwald-Giemsa stained smears. Brief case histories are also given.	Exami blood			ening	and ide	ntificat	tion of	malaria	a plasr	nodia a	and oth	ier
		1	2	3	4	5	6	7	8	9	10	11	12
_	5471 Parasites in blood, MGG stain, virtual microscopy											•	
VIRTUAL	Specimens: 2 virtual whole slide images of MGG stained smears prepared by using a scanner microscope. Brief case histories also given.	Exami blood			ening a	and ide	ntificat	tion of	malaria	a plasr	nodia a	and oth	ier
		1	2	3	4	5	6	7	8	9	10	11	12
	5440 Parasites in faeces		•			•			•			•	
	Specimens: 3 stool samples in formalin. Brief case histories also given.	Exami parasi [:]		s: Scre	ening a	and ide	ntificat	tion of	intestir	nal par	asites	(ova ai	nd
		1	2	3	4	5	6	7	8	9	10	11	12
μ	5450 Parasites in faeces, virtual microscopy)			•						•		
VIRTUAL	Specimens: Virtual whole slide images of stool samples in formalin prepared by using a scanner microscope. Brief case histories also given.	Exami parasi		s: Scre	ening a	and ide	ntificat	tion of	intestir	nal par	asites	(ova ai	nd
		1	2	3	4	5	6	7	8	9	10	11	12
	5420 Toxoplasma, antibodies)	•			•			•			•	
€QA³	Specimens: 3 liquid human plasma samples, 0.7 mL each. Brief case histories also given. Authentic commutable samples: Each sample batch originates from a single human donor.					a IgA, I erpreta		1 and to	otal ani	tibodie	es, IgG a	avidity	,
		1	2	3	4	5	6	7	8	9	10	11	12
ь	5473 Trichomonas vaginalis, detection		•		•				•		•		
8	Specimens: 3 simulated samples	Exami	nation	s: Dete	ction of	Trichor	nonas	vaginal	is antig	en and	nuclei	c acid (I	NAT)
	Microbiology » Virology												
		1	2	3	4	5	6	7	8	9	10	11	12
	5556 HSV1&2/VZV/ <i>T. pallidum</i> , nucleic acid detection				•			•					
NEV	Specimens: 2-3 samples simulating swab samples taken from lesions	Exami	nation	s: Nucl	eic acio	l detect	ion of	HSV1, H	HSV2, V	'ZV, Tri	eponen	na pall	idum
		1	2	3	4	5	6	7	8	9	10	11	12
	5651 CMV and EBV, nucleic acid detection, quantitative			•						•			
	Specimens: 5 samples simulating plasma, 1.5 mL Examinations: CMV and EBV NAT (quantitative).	Notes	: Quan	titative	e result	proces	sing						
		1	2	3	4	5	6	7	8	9	10	11	12
	5650 Cytomegalovirus, antibodies		•			•				•			•
€QA³	Specimens: 3 liquid human plasma samples, 0.7 mL. Authentic commutable samples: each batch originates from a single human donor.				-	ovirus I erpreta		1 and to	otal ant	tibodie	es, IgG :	avidity	and

		2	2		_	~	-	•	•	10		12
635 Dengue virus, antibodies and antigen detection		2	<u> </u>	4	5	•		8	•	10	11	12
Specimens: 3 human serum or plasma samples, 0.5 mL. Authentic, commutable samples from a single human donor or occasionally simulated camples.	Exami (NS1) a			-	-	-			Dengu	ie virus	antige	n
	1	2	3	4	5	6	7	8	9	10	11	12
640 EBV mononucleosis, POCT		•			•				•			•
pecimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable amples: each batch originates from a single human donor.	Exami Notes:				ories ar	nd POC	T sites					
	1	2	3	4	5	6	7	8	9	10	11	12
641 EBV mononucleosis, specific antibodies)	•			•				•			•
pecimens: 3 liquid human plasma samples, 1.4 mL. Authentic commutable amples: each batch originates from a single human donor.	Exami post-a						G, EBV	VCA A	.bM, Ig	G Avidi	ity and	
	1	2	3	4	5	6	7	8	9	10	11	12
092 Hepatitis A, antibodies)	•			•			•			•	
pecimens: 3 liquid human plasma samples, 0.6 mL. Authentic commutable amples: each batch originates from a single human donor.	Exami interpr			/Ab, HA	VAbM	, HAVA	bG and	post-	analyt	ical clin	ical	
	1	2	3	4	5	6	7	8	9	10	11	12
094-5096 Hepatitis B and C, serology, specimen volume 0.6 mL / 1.2 mL / 2.0 mL)	•			•			•			•	
uthentic commutable samples: each batch originates from a single human onor. xaminations: HBcAb, HBcAbM, HBeAb, HBeAg, HBsAb (qual), HBsAg, CVAb, HCVAbCt and post-analytical clinical interpretation	5094: 1 5095: 1 5096: 1	for 1.2 i	mL hu	man pl	asma s	pecim	ens					
093 Hepatitis B, s-antigen antibodies, quantitative	1	2	3	4	5	6	7	8	9	10	11	12
pecimens: 2 liquid human plasma or serum samples, 0.5 mL. Authentic ommutable samples: each batch originates from a single human donor.	Exami	nation	s: HBs	Ab (an	Li-HBs)	l, quant	titative					
	1	2	3	4	5	6	7	8	9	10	11	12
679 Hepatitis B virus, nucleic acid detection (DNA))		•		•				•		•	
pecimens: 3 lyophilized or liquid plasma samples, 1.2 mL	Exami detect		s: HB\	/ DNA,	quanti	tative a	and/or	qualita	ative n	ucleic a	acid	
	1	2	3	4	5	6	7	8	9	10	11	12
578 Hepatitis C virus, nucleic acid detection (RNA))		•		•				•		•	
pecimens: 3 lyophilized or liquid plasma samples, 1.2 mL	Exami detect		s: HC∖	(RNA,	quanti	tative a	and/or	qualita	ative n	ucleic a	acid	
		-	-	4	-	6	7		0	10	11	12
	1	2	3	4	5	0	· '	8	9	10	11	
682 Hepatitis E, antibodies	1	2	3	4	•	0		8	9		•	
pecimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable	1 Exami clinical	nation	s: Hep	atitis E	•		lgM ar				•	
pecimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable		nation	s: Hep	atitis E	•						•	12
682 Hepatitis E, antibodies 3 ipecimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable amples: each batch originates from a single human donor. 3 555 Herpes simplex 1 and 2, antibodies 3	clinical	nation l interp	s: Hep pretatio	atitis E on.	• virus I	gG and	IgM ar	ntibod	ies, po	st-ana	• lytical	12

	5680 HIV-1, nucleic acid detection (RNA)	1 3*)	2		3	4	5	6	7	8	9	10	11	12
	Specimens: 3 lyophilized or liquid plasma samples, 1.2 mL			ons: I	HIV-1	RNA,	quant	itative	and/or	qualit	ative n	ucleic	acid	
		1	2		3	4	5	6	7	8	9	10	11	12
	5091 HIV, antibodies and antigen detection	3	•				•			•			•	
EQA ³	Specimens: 3 liquid human plasma 0.7 mL	Exan confi		ry te	sts, p	oost-a	nalytic	, HIVAt al clinio						iens
		1	2		3	4	5	6	7	8	9	10	11	12
н	5090 HIV, antibodies and antigen detection, POCT	3*	•				•			•			•	
POCT	Specimens: 3 liquid human plasma 0.5 mL Examinations: HIVAb and HIVAgAb primary tests (POCT)	Note	s: Sch	eme	5091	is for	clinica	l labora	tories					
		1	2		3	4	5	6	7	8	9	10	11	12
	5086 Human papillomavirus, nucleic acid detection	3				•			•			•		
	Specimens: 2 simulated samples, 1 mL Examinations: High-risk human papillomavirus NAT, hrHPVNAT	Note	s: Suit	table	for n	iucleid	acid n	nethods	s used	in cerv	ical car	ncer sci	reening	}
		1	2		3	4	5	6	7	8	9	10	11	12
~	5089 Human T-cell lymphotropic virus, antibodies	3	•				•			•			•	
EQA³	Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.							and cor Imples						
		1	2		3	4	5	6	7	8	9	10	11	12
	5670 Influenza virus A+B and RS virus, nucleic acid detection	3	•										•	
	Specimens: 5 artificial samples. 1 mL Examinations: InfANAT, InfBNAT, RSVNAT	Note detec		also	sche	me 5	300 Re	spirato	ry infec	tions i	multipl	lex, nu	cleic ac	id
		1	2		3	4	5	6	7	8	9	10	11	12
E		3*	•										•	
POO	Specimens: 3 liquid and/or swab samples. Examinations: InfAAg, InfBAg							nd POC ⁻ ee sche				are no	it suita	ble
		1	2		3	4	5	6	7	8	9	10	11	12
~	5668 Measles virus, antibodies	3				•			•			•		
€QA³	Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.		inatio al inte				rus IgG	and IgI	M antit	odies	and po	st-ana	lytical	
		1	2		3	4	5	6	7	8	9	10	11	12
	5562 Multiple respiratory virus, nucleic acid detection	3	•						•				•	
	Specimens: The round contains 3 swab samples. Examinations: Influenza A/B virus NAT, RSV NAT and SARS-CoV-2 NAT		s: Sch 2 assa		is no	t suit	able fo	r TMA r	nethoo	ls (e.g.	Hologi	ic Pant	her SA	RS-
L			-		-		-	-	-	0	~	10		42
	5669 Mumps virus, antibodies		2		3	4	5	6	/	8	9	10	11	12
EQA³	Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.		inatio al inte				us IgG :	and IgN	1 antib	odies a	and pos	st-anal	ytical	1
	5675 Norovirus, nucleic acid detection	1	2		3	4	5	6	7	8	9	10	11	12
		3			-			-						
	Specimens: 3 simulated samples, 1 mL	Exan	nnatio	ons: l	Vorov	virus l	NAT, ge	nogrou	ps GI a	nd Gll				

660 Parvovirus B19, antibodies		1	2		3	4		5	6	7	8	9	10	11	12
Specimens: 3 liquid human plasma or serum samples, 0.4 mL. Authentic commutable samples: each batch originates from a single numan donor.	E				Parv	/oviru	is Ig	G, IgN	۸, IgG	avidity	and p	ost-an	alytical	clinica	
		1	2		2			5	6	7			10	11	12
560 Puumala virus, antibodies	3*		2		•	4			•		0	•		•	12
ipecimens: 3 liquid human plasma or serum samples, 0.3 mL. Brief case histories are also provided.	E Ig	gG av	idity	and J	post	t-ana	lytic	al clir	nical ir	nterpre	tation		ific anti	bodies	,
		1	2		3	4	_	5	6	7	8	9	10	11	12
6673 Respiratory adenovirus, antigen detection	3*)				•				•			•			•
Specimens: 3 simulated samples, 1 mL	E	xami	natio	ns: A	der	ιοvirι	is A	g							
		1	2		3	4		5	6	7	8	9	10	11	12
5098 Rotavirus and adenovirus, antigen detection	3*				•				•			•			•
Specimens: 3 simulated samples, 1 mL	antibodies 			I											
		1	2		3	4		5	6	7	8	9	10	11	12
5672 RS virus, antigen detection	3 *∟		•											•	
Specimens: 3 liquid and/or swab samples. Examinations: RSVAg													s are no	it suita	ble
		1	2		3	4		5	6	7	8	9	10	11	12
5667 Rubella virus, antibodies	3	•				•				•			•		
Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.									ind IgN	4 antil	odies,	lgG av	idity ar	id post	-
		1	2		3	4		5	6	7	8	9	10	11	12
5099 Tick-borne encephalitis virus, antibodies	3				•				•			•			•
Specimens: 3 liquid human plasma or serum samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.	ir	nterp	retati	on		-	-					st-ana	lytical o	linical	
		1	2		3	4		5	6	7	8	9	10	11	12
5677 SARS-CoV-2, antibodies	$\widehat{3}$	•				•							•		
Specimens: 3 liquid human plasma or serum samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.	ES	SARS	CoV-	2 lgA	A							₹S-Co\	/-2 lgM,		
		1	2		3	4		5	6	7	8	9	10	11	12
5681 SARS-CoV-2, antigen detection	3	•				•							•		
Specimens: 3 simulated samples Examinations: SARS-CoV-2 Ag		lotes	: For	clinic	al la	abora	itori	es an	d POC	T sites					
		1	2		3	4		5	6	7	8	9	10	11	12
5676 SARS-CoV-2, nucleic acid detection	3	•				•				•			•		
Specimens: 3 simulated whole genome cDNA samples		lotes e.g. H									ble for	TMA r	nethod	s	

		1	2	3	4	5	6	7	8	9	10	11	12
	5665 Varicella-zoster virus, antibodies		•			•			•			•	
EQA³	Specimens: 3 liquid human plasma or serum samples, 0.5 mL.			s: Varic retatio		ster IgC	i, IgM,	total a	ntibod	ies anc	l post-	analyti	cal
		1	2	3	4	5	6	7	8	9	10	11	12
	5636 Zika virus, antibodies					•						•	
		Exami	nations	: Zika v	irus IgC	i, Zika v	/irus Igl	M, clinio	cal inte	rpretat	ion		

EQA schemes including Antimicrobial Susceptibility Testing

Bacteriology and mycology

5100 Blood culture

- 5260 Fungal culture
- 5080 General Bacteriology 1

5081 General Bacteriology 2

- 5120 *Neisseria gonorrhoeae* (Gc), culture and susceptibility testing
- 5073 Surveillance for multidrug resistant bacteria, gramnegative rods
- 5071 Surveillance for multidrug resistant bacteria, MRSA
- 5072 Surveillance for multidrug resistant bacteria, VRE
- 5065 Urine culture, quantitative screening, identification and susceptibility
- 5230 Mycobacterium tuberculosis, drug resistance

EQA schemes suitable for direct nucleic acid testing methods

Bacteriology

- 5612 Chlamydia trachomatis and Neisseria gonorrhoeae, nucleic acid detection
- 5201 Clostridioides difficile, nucleic acid detection
- 5191 Faecal bacterial pathogens multiplex, nucleic acid detection
- 5221 Mycobacterial nucleic acid detection
- 5599 Streptococcus agalactiae (GBS), nucleic acid detection
- 5593 *Streptococcus pyogenes* (Group A), nucleic acid detection in pharyngeal sample
- 5071 Surveillance for multidrug resistant bacteria, MRSA
- 5072 Surveillance for multidrug resistant bacteria, VRE
- 5073 Surveillance for multidrug resistant bacteria, gramnegative rods
- 5230 Mycobacterium tuberculosis, drug resistance

Multiplex

- 5191 Faecal bacterial pathogens multiplex, nucleic acid detection
- 5472 Faecal parasites multiplex, nucleic acid detection
- 5304 Gastrointestinal viral multiplex, nucleic acid detection
- 5303 Meningitis-encephalitis multiplex, nucleic acid detection
- 5300 Respiratory infections multiplex, nucleic acid detection
- 5302 Sexually transmitted diseases multiplex, nucleic acid detection

Parasitology

5472 Faecal parasites multiplex, nucleic acid detection5430 Malaria, antigen and nucleic acid detection5473 *Trichomonas vaginalis*, detection

Virology

- 5556 HSV162/VZV/*T. pollidum*, nucleic acid detection
 5651 CMV and EBV, nucleic acid detection, quantitative
 5679 Hepatitis B virus, nucleic acid detection (DNA)
 5678 Hepatitis C virus, nucleic acid detection (RNA)
- 5680 HIV-1, nucleic acid detection (RNA)
- 5086 Human papillomavirus, nucleic acid detection
- 5670 Influenza virus A+B and RS virus, nucleic acid detection
- 5562 Multiple Respiratory Virus, nucleic acid detection
- 5675 Norovirus, nucleic acid detection
- 5676 SARS-CoV-2, nucleic acid detection

Mycology

5261 Fungal infections, nucleic acid detection

Multiplex

Multiplex EQA schemes are aimed to support laboratories to fulfill quality requirements of multiplex nucleic acid tests. All schemes include clinically relevant samples specially designed for multiplex nucleic acid testing. The multiplex schemes are annual programs and during the period of one calendar year, a comprehensive selection of listed pathogens will be covered.

	1	2	3	4	5	6	7	8	9	10	11	12
5191 Faecal bacterial pathogens multiplex, nucleic acid detection				•		•				•		•
Specimens: 3 samples. Either lyophilized mixtures of bacteria and/or simulated samples, 1 mL. Examinations: Direct nucleic acid detection. Pathogens included are Aeromonas, Campylobacter, <i>E. coli</i> EHEC (stx1/stx2), <i>E. coli</i> EAEC, <i>E. coli</i> EIEC, <i>E. coli</i> ETEC, Plesiomonas, Salmonella, Shigella and Yersinia.	Notes listed					alenda	r year, i	a comp	orehens	sive sel	ection	of
	1	2	3	4	5	6	7	8	9	10	11	12
5472 Faecal parasites multiplex, nucleic acid detection)	•			•			•			•	
Specimens: 3 lyophilized samples					d deteo lytica, l				ium, D	ientam	oeba	
	1	2	3	4	5	6	7	8	9	10	11	12
5304 Gastrointestinal viral multiplex, nucleic acid detection)				•						•	
Specimens: 3 simulated samples, 1 mL. Examinations: Direct multiplex nucleic acid detection. Pathogens included are: Adenovirus, Astrovirus, Norovirus, Rotavirus, Sapovirus.	Notes listed					alenda	r year, i	a comp	orehens	sive sel	ection	of
5303 Meningitis-encephalitis multiplex, nucleic acid detection 1	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 3 simulated samples, 1 mL. Examinations: Direct multiplex nucleic acid detection. Pathogens included are: Escherichia coli K1, Haemophilus influenzae, Listeria monocytogenes, Neisseria meningitidis, Streptococcus agalactiae, Streptococcus pneumoniae, Cytomegalovirus (CMV), Enterovirus, Epstein-Barr virus (EBV), Herpes	6 (HH\ Crypto	/6), Hu coccus : Durin	man p <i>neofoi</i> g the p	arecho rmans, eriod o	, virus (H /gattii. of one c	· HPeV),	Varizel	la zost	er virus	an herp s (VZV) sive sel) and	
	1	2	3	4	5	6	7	8	9	10	11	12
5300 Respiratory infections multiplex, nucleic acid detection		•			•				•			•
Specimens: 4 simulated samples, 1 mL Examinations: Direct multiplex nucleic acid detection. Pathogens included are adenovirus, <i>B. parapertussis, B. pertussis, C. pneumoniae</i> , coronavirus (OC43, 229E, NL63, HKU1), enterovirus, influenzavirus A/B, <i>L. pneumophila</i> , metapneumovirus, <i>M. pneumoniae</i> , parainfluenzavirus 1-4, rhinovirus, RSV A/B, SARS-CoV-2 and <i>S. pneumoniae</i> .	Notes listed					alenda	r year,	a comp	orehens	sive sel	ection	of
	1	2	3	4	5	6	7	8	9	10	11	12
5302 Sexually transmitted diseases multiplex, nucleic acid detection			•		•			•			•	
Specimens: 4 simulated swab/urine samples, 2 mL Examinations: Direct multiplex nucleic acid detection. Pathogens included are <i>C. trachomatis,M. genitalium, M. hominis, N. gonorrhoeae, T. vaginalis,</i> <i>U. parvum and U. urealyticum.</i>	Notes listed					alenda	r year, i	a comp	orehens	sive sel	ection	of

Pathology

Seven high quality schemes are available for pathology laboratories. With changing topics in the rounds, both the routine and more advanced needs are covered. The challenges are realistic and include also less commonly encountered clinically relevant cases. In the cytology and histopathology schemes virtual microscopy is used. With this technology, viewing of several fields of vision and levels of focus are enabled on a computer screen simulating analysis with an optical microscope.

Pathology » Preanalytics 11 7806 Preanalytics and process in anatomic pathology 5 Specimens: 3-5 cases with preanalytical and process error(s) Notes: The scheme is intended for all laboratory staff of pathology laboratories. Scheme is carried out online. Examinations: Participants are asked to find preanalytical or laboratory process error(s) in the cases. Pathology » Diagnostics Gynaecological cytology (liquid based), virtual microscopy 6701 5 VIRTUA Specimens: Virtual images of at least 5 Papanicolaou stained slides of liquid instructions are provided. based cytology (LBC) samples (ThinPrep). Diagnostics of cellular atypias in Examinations: Observations and diagnoses samples taken from gynaecological loci is assessed. Brief case histories and Notes: Virtual microscopy program does not work with Internet Explorer. 10 11 12 6700 Gynaecological cytology (smear), virtual microscopy 5 VIRTUAL Specimens: Virtual images of at least 5 Papanicolaou stained slides of gynaecological loci is assessed. Brief case histories and instructions are provided conventional pap smear samples. The samples are selected from routine Examinations: Observations and diagnoses cytological material. Diagnostics of cellular atypias in samples taken from Notes: Virtual microscopy program does not work with Internet Explorer. 10 6 11 17 Histopathology, virtual microscopy 6542 5 **VIRTUAL** Topics 2023: 1/2023 Lymphohematopoietic pathology, 2/2023 Prostate Examinations: Observations and diagnoses Specimens: Virtual images of at least 5 slides of miscellaneous tissue. Notes: Topics may vary annually Brief case histories and instructions are provided. 10 12 Non-gynaecological cytology, virtual microscopy 6702 5 VIRTUAL Specimens: Virtual images of Papanicolaou stained slides of nonfrom representative loci. Brief case histories and instructions are provided. gynaecological cytosentrifuge (CCF) or smear preparations or May-Grünwald-Examinations: Observations and diagnoses Giemsa stained smears or imprint preparations. Images of at least 5 cases Notes: Virtual microscopy program does not work with Internet Explorer.

Pathology » Technology

······································		1	2	3	4	5	6	7	8	9	10	11	12
6543 Histological staining techniques					•						•		
Topics: 1/2023 HE, FE 2/2023 PAS, D-PAS, LEDER		Labqu	ality fo	r evalu	iation t	oy an e	pert b	oard.					
Specimens: Unstained paraffin sections or smears Examinations: Staining of the slides. A set of stained slides is returned to		Notes	: Stains	s vary a	annuall	У							
		1	2	З	4	5	6	7	8	9	10	11	12
6600, 66005 Immunohistochemical staining methods				•						•		•	
Topics: 1/2023 Unknown tumour: SOX10, Prame, Melan A/Mart-1, CK20, CK7 2/2023 Breast cancer: PR, HER2, ER, Ki-67 and HER2 -ISH* *) also double stain accepted, but no FISH		Labqu	ality fo	r evalu	ation b	y an ex	pert bo	oard.		slides i			
3/2023 Lymphoma: CD23, bcl2, bcl6, CD35, CD138			-	·						ype. Th ples ar			ed.
Specimens: Unstained paraffin embedded tissue from different tissue blocks or from one multiblock	with distinct topics available annually. Multiblock samples are now included. Participants can select 3 or 5 antibodies of their choice in each round (6600S for 3 antibodies, 6600 for 5).)5

Preanalytics

The preanalytical schemes provide laboratories and POCT sites with tools for extending quality assurance beyond the commonly assessed analytical phase. As a result of the improved analytical quality, most errors have been suggested to now occur in the preanalytical phase. Managing all phases of the total testing cycle is equally important to ensure patient safety.

	1	2	3	4	5	6	7	8	9	10	11	12
3817 HIL-index [DEKS]		•			•					•		
pecimens: 2 serum samples, 2 mL.	Exami sample							d to be	analys	ed. On	e of the	2
	1	2	3	4	5	6	7	8	9	10	11	12
806 Preanalytics and process in anatomic pathology					•						•	
Specimens: 3-5 cases with preanalytical and process error(s) Examinations: Participants are asked to find preanalytical or aboratoryprocess error(s) in the cases.	Notes: pathol								fof			
	1	2	3	4	5	6	7	8	9	10	11	12
7800 Preanalytics, clinical chemistry (5)		•							•			
Specimens: 3 cases with preanalytical error(s) Examinations: Participants are asked to find preanalytical error(s) in the cases	Notes: Schem	: The si ie is ca				or pers	onnel u	ising P	OCT te	sts anc	l device	<u>!</u> S.
	1	2	3	4	5	6	7	8	9	10	11	12
7802 Preanalytics, microbiology				•						•		
cases	1	2	3	4	5	6	7	8	9	10	11	12
7807 Preanalytics, Pneumatic Sample Transport									•			
Specimens: Two surrogate blood vials (i.e. measurement devices for recording 3-axis acceleration during pneumatic tube system transport (PTS). Examinations: Vials are sent through the PTS as regular blood samples, no laboratory analysis is performed. Rejection probability of LDH, ASAT and K will be calculated using the cumulative vibration level, laboratory defined anayte-specific hemolysis cutoffs, and a hemolysis model.	Octobo upon r not inc	er. Lab receivir	oratori ng the). It is p	es are vials a	asked nd to re	to perfo eturn th	ig labor orm the ne vials 3 diffei	e record using	lings w a couri	ithin o er (ship	ne wee ping co	osts
7804 Preanalytics, POCT in chemistry	1	2	3	4	5	6	7	8	9	10	11	12
7804 Preanalvtics. POCT in chemistrv	•									•		
	Martine					or pers	onnel u	ising P	OCT te	sts and	device	25.
Specimens: 3 cases with preanalytical error(s) Examinations: Participants are asked to find preanalytical error(s) in the cases	Schem	ie is ca	meu o	ut onn								
Specimens: 3 cases with preanalytical error(s) Examinations: Participants are asked to find preanalytical error(s) in the cases		e is ca	3	4	5	6	7	8	9	10	11	12
Specimens: 3 cases with preanalytical error(s) Examinations: Participants are asked to find preanalytical error(s) in the			3 •	4	5	6	7	8	9	10	11	12

Others

Others » Andrology

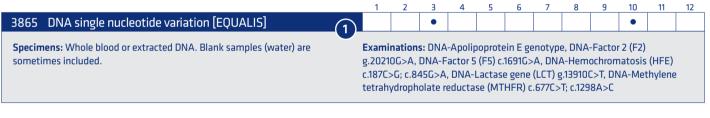
		1	2	3	4	5	6	7	8	9	10	11	12
6400 Semen analysis											•		
Specimens: 3-6 digital videos and/or digital images Examinations: Concentration, morphology and motility	No	tes:	Schen	ne is ca	rried o	ut onli	ne						

Others » Clinical physiology

	1	2	3 4	5	6	7	8	9	10	11	12
7130 ECG, interpretation	\bigcirc		•						•		
Specimens: 3 digital ECG registrations (images) Examinations: Technical quality and findings	person	nel in PO(is designer CT units. P /, findings	articip	ants ar	e evalu					

Others » Genetics

EQA³



Others » Laboratory instruments

		1	2	3	4	5	6	7	8	9	10	11	12
8814 ELISA reader photometry control [DEKS]	\bigcirc					Circula	tion st	arts in	March				
Specimens: An ELISA-plate with built-in gray glass filters Examinations: Control for the absorbance scale in ELISA reader		Notes: ELISA r			traceat	ole to N	IIST Co	ntrol o	f the ab	sorba	nce sca	le of	

External quality assessment for extra-analytical phases

PREANALYTICAL EQA | ANALYTICAL EQA | POSTANALYTICAL EQA

Labquality has two advanced external quality assessment programs for extra-analytical phases of clinical laboratory investigation process. Preanalytical EQA programs are independent schemes for the evaluation of preanalytical phase and Integrated EQA programs includes pre- and/or postanalytical evaluation together with traditional EQA samples.

Pre- and postanalytical EQA programs

Preanalytical EQA programs

7800 Preanalytics, clinical chemistry7802 Preanalytics, microbiology7806 Preanalytics and process in anatomic pathology8817 HIL-index [DEKS]

Integrated EQA programs

Clinical chemistry

2570, 2580, 2590 Glucose meters
2114 Haemoglobin, 1-level, POCT
2300, 2300S Hormones A: Basic analytes of hormone and immunochemistry
2301, 2301S Hormones B: Steroid and peptide hormones

Clinical physiology

7130 ECG, interpretation

Haematology

4480 Column agglutination methods: grading of reactions and patient cases

Immunology

- 5935 ANCA and GbmAb
- 5900 Antinuclear antibodies
- 5920 Thyroid gland antibodies
- 5940 Coeliac disease, antibodies
- 5250 Interferon Gamma Release Assay (IGRA) for Mycobacterium tuberculosis

Microbiology

- 5950 Bordetella pertussis, antibodies
- 5960 Borrelia burgdorferi, antibodies, European origin
- 5620 Chlamydia pneumoniae, antibodies
- 5650 Cytomegalovirus, antibodies
- 5635 Dengue virus, antibodies and antigen detection
- 5641 EBV mononucleosis, specific antibodies
- 5080 General Bacteriology 1 (aerobes and anaerobes)
- 5081 General Bacteriology 2 (aerobes)
- 5860 Helicobacter pylori, antibodies
- 5092 Hepatitis A, antibodies
- 5094–5096 Hepatitis B and C, serology
- 5682 Hepatitis E, antibodies
- 5091 HIV, antibodies and antigen detection5089 Human T-cell lymphotropic virus, antibodies

- 7807 Preanalytics, Pneumatic sample transport
- 7804 Preanalytics, POCT in chemistry
- 7801 Preanalytics, urine and blood sample collection
- 2200 Lipids and lipoproteins
- 2240 Proteins, electrophoresis
- 2050 Serum B and C (2-level)
- 2480 Vitamin A, E and D metabolites

- 5668 Measles virus, antibodies
- 5669 Mumps virus, antibodies
- 5980 *Mycoplasma pneumoniae*, antibodies
- 5660 Parvovirus B19, antibodies
- 5560 Puumala virus, antibodies
- 5667 Rubella virus, antibodies
- 5880 Syphilis serology
- 5099 Tick-borne encephalitis virus, antibodies
- 5420 Toxoplasma, antibodies
- 5060 Urine culture, quantitative screening
- 5065 $\,$ Urine culture, quantitative screening, identification and
- susceptibility
- 5665 Varicella-zoster virus, antibodies
- 5636 Zika virus, antibodies

Alphabetical scheme directory

Α

ABO and Rh grouping, 16 Acid-base status and electrolytes, 10 ACTH and Cortisol. 9 Activated partial tromboplastin time, INR and fibrinogen, 17 Albumin and creatinine in urine, 13 Alcohol in whole blood: Ethanol + methanol + isopropanol, 10 Alcohol in whole blood: Ethylene glycol, 10 Alcohol in serum: Ethanol + methanol + isopropanol + acetone, **10** Alcohol in serum: Ethylene glycol, 10 Allergen component [UK NEQAS], 6 Allergy in vitro diagnostics [SKML], 6 Allergy in vitro diagnostics [UK NEQAS], 6 Ammonium ion. 10 ANCA and GbmAb, 20 Angiotensin convertase (ACE), 10 Antibody screening and compatibility testing, 16 Anticoagulants: LMW-Heparin/antiFXa, 17 Antiglobulin test, direct, 16 Anti-Müllerian hormone, 13 Antinuclear antibodies, 20 Antistreptolysin, 21 Autoimmune diagnostics, IFA interpretation (digital images),20 Autoimmune liver disease and gastric parietal cell antibodies, 20

B

Bacteriological staining, direct (digital images), 22 Basic blood count, 1-level sample, 16 Basic blood count, 2-level sample, 16 Basic chemistry, POCT analyzers, 6 Bile acids, 10 Bilirubin, conjugated, 10 Bilirubin, neonatal, 10 Blood culture, 22 Blood culture, screening, 22 Bordetella pertussis, antibodies, 21 Borrelia burgdorferi, antibodies, European origin, 21

С

Cerebrospinal fluid, bacterial culture, Chemokine CXCL13, *Chlamydia pneumoniae*, antibodies, *Chlamydia trachomatis* and *Neisseria gonorrhoeae*, nucleic acid detection, *Clostridioides difficile*, culture and toxin detection, *Clostridioides difficile*, nucleic acid detection, CMV and EBV, nucleic acid detection, quantitative, Coeliac disease, antibodies, Column agglutination methods: grading of reactions and patient cases, C-reactive protein (CRP) for analyzers, C-reactive protein (CRP), POCT, CRP, low concentration, Cystatin C [DEKS], Cytomegalovirus, antibodies,

D

DayTrol, human serum, D-dimer, **17** Decialotransferrin [EQUALIS], Dengue virus, antibodies and antigen detection, DNA analysis [EQUALIS], Drug of abuse screening in urine,

E

EBV mononucleosis, POCT, EBV mononucleosis, specific antibodies, ECG, interpretation, ELISA reader photometry control [DEKS], Eosinophil cationic protein, Erythrocyte sedimentation rate, Erythrocyte sedimentation rate: Alifax-analyzers; Greiner tube, Erythrocyte sedimentation rate: Alifax-analyzers; Sarstedt tube, Erythrocyte sedimentation rate: iSED,

F

Faecal bacterial pathogens multiplex, nucleic acid detection, **22**, Faecal calprotectin, Faecal culture, Faecal elastase, Faecal occult blood, qualitative, Faecal occult blood, quantitative, Faecal parasites multiplex, nucleic acid detection, **25**, Flagger program (Noklus), Francisella tularensis, antibodies, Fungal culture, Fungal infections, nucleic acid detection,

G

Gastric biomarkers, Gastrointestinal viral multiplex, nucleic acid detection, General Bacteriology 1 (aerobes and anaerobes), General Bacteriology 2 (aerobes), Glucose meters, Gram stain, blood culture, Gram stain, colonies, Gynaecological cytology (liquid based), virtual microscopy, Gynaecological cytology (smear), virtual microscopy,

Alphabetical scheme directory

Η

5-hydroxyindoleacetic Acid (5-HIAA), 11 Haemoglobin A1c, liquid samples, 8 Haemoglobin A1c, liquid samples, POCT, 8 Haemoglobin, 1-level HemoCue 801 and HemoCue 301, 7 Haemoglobin, 1-level, POCT, 7 Haemoglobin, 3-level samples, cell counters and analyzers, 7 Haemoglobin, 3-level samples, POCT, 7 Haemoxymeters, 11 Helicobacter pylori, antibodies, 21 Helicobacter pylori, antigen detection in faeces, 23 Hepatitis A. antibodies. 27 Hepatitis B and C, serology, specimen volume 0.6 mL / 1.2 mL / 2.0 mL, 27 Hepatitis B, s-antigen antibodies, quantitative, 27 Hepatitis B virus, nucleic acid detection (DNA), 27 Hepatitis C virus, nucleic acid detection (RNA), 27 Hepatitis E, antibodies, 27 Herpes simplex 1 and 2, antibodies, 27 HIL-index [DEKS], 33 Histological staining techniques, 32 Histopathology, virtual microscopy, 32 HIV-1, nucleic acid detection (RNA), 28 HIV. antibodies and antigen detection. 28 HIV, antibodies and antigen detection, POCT, 28 Homocysteine [DEKS], 11 Hormones A: Basic analytes of hormone and immunochemistry, 8 Hormones B: Steroid and peptide hormones, 9 HSV1&2/VZV/T. pallidum, nucleic acid detection, 26 Human papillomavirus, nucleic acid detection, 28 Human T-cell lymphotropic virus, antibodies, 28

I

Interferon Gamma Release Assay (IGRA) for *Mycobacterium tuberculosis*, 20 Immunohistochemical staining methods, **32** Influenza virus A+B and RS virus, nucleic acid detection, **28** Influenza virus A+B, antigen detection, **28**

INR, CoaguChek, i-STAT and Siemens Xprecia, POCT, INR, EuroLyzer, POCT, INR, LabPad, POCT, INR, MicroINR, LumiraDX and CoagSense, POCT, Interleukin-6,

Κ

Ketones (beta-hydroxybutyrate), POCT, 8

L

Legionella, antigen detection in urine, Leucocyte differential count and evaluation of blood cell morphology, virtual microscopy, Leucocyte differential count, 3-part, automated, Leucocyte differential count, 5-part, automated, Lipids and lipoproteins, Lipoprotein a,

Μ

Malaria, antigen and nucleic acid detection, 25 Malaria screening, Giemsa stain, 25 Malaria screening, MGG stain, 25 Measles virus, antibodies, 28 Meningitis-encephalitis multiplex, nucleic acid detection, 31 Methyl malonate [DEKS], 11 Multiple Respiratory Virus nucleic acid detection, 28 Mumps virus, antibodies, 28 Mycobacterial culture and stain, 23 Mycobacterial nucleic acid detection, 23 Mycobacterial stain, 24 *Mycobacterium tuberculosis*, drug resistance, 23 *Mycoplasma pneumoniae*, antibodies, 21 Myocardial markers, 7 Myocardial markers and CRP, low concentration, 8

Ν

Nasal swab cells, Natriuretic peptides 1, B-type, NT-ProBNP, Natriuretic peptides 2, B-type, BNP, *Neisseria gonorrhoeae* (Gc), culture and susceptibility testing, Non-gynaecological cytology, virtual microscopy, Norovirus, nucleic acid detection,

Ρ

Parasites in blood, Giemsa stain, Parasites in blood, Giemsa stain, virtual microscopy, Parasites in blood, MGG stain, Parasites in blood, MGG stain, virtual microscopy, Parasites in faeces, Parasites in faeces, virtual microscopy, Parathyroid hormone, intact, Parvovirus B19, antibodies, Percentiler program (Noklus),

Alphabetical scheme directory

Phospholipid antibodies, Preanalytics and process in anatomic pathology, **32, 33** Preanalytics, clinical chemistry, Preanalytics, microbiology, Preanalytics, Pneumatic Sample Transport, Preanalytics, POCT in chemistry, Preanalytics, urine and blood sample collection, Pregnancy test, Procalcitonin, Prostate specific antigen, Proteins in cerebrospinal fluid, Proteins, electrophoresis, Proteins, immunochemical determinations, Prothrombin time, Puumala virus, antibodies,

R

Respiratory adenovirus, antigen detection, Respiratory infections multiplex, nucleic acid detection, Reticulocyte count, automated, Reticulocyte count, manual methods, Rheumatoid factor and citrullic peptide antibodies, Rotavirus and adenovirus, antigen detection, RS virus, antigen detection, Rubella virus, antibodies,

S

Salivary cortisol, 9 Salmonella, culture, 24 SARS-CoV-2, antibodies, 29 SARS-CoV-2, antigen detection, 29 SARS-CoV-2, nucleic acid detection, 29 Semen analysis, 34 Serum A, lyophilized samples, 9 Serum B and C (2-level), 9 Sexually transmitted diseases multiplex, nucleic acid detection, 31 Special coagulation, 18 Sputum cells, 11 Streptococcus agalactiae (GBS), nucleic acid detection, 24 Streptococcus agalactiae (GBS), culture, 24 Streptococcus pneumoniae, antigen detection in urine, 24 Streptococcus pyogenes (Group A), antigen detection in pharyngeal sample, 24 Streptococcus pyogenes (Group A), nucleic acid detection in pharyngeal sample, 24 Surveillance for multidrug resistant bacteria, gramnegative rods, 24

Surveillance for multidrug resistant bacteria, grammegative rou: Surveillance for multidrug resistant bacteria, MRSA, **24** Surveillance for multidrug resistant bacteria, VRE, **25** Synovial fluid crystals, **11** Syphilis serology, **21**

T

Therapeutic drugs, Throat streptococcal culture, Thyroid gland antibodies, Tick-borne encephalitis virus, antibodies, Toxoplasma, antibodies, *Trichomonas vaginalis*, detection, Troponin I and Troponin T, detection, POCT, Tryptase [UK NEQAS], TSH receptor antibodies, Tumour markers,

U

Urine bacterial screening with automated analyzers, Urine culture, quantitative screening, Urine culture, quantitative screening, identification and susceptibility, Urine, identification of cells and other particles (digital images), Urine quantitative chemistry, Urine strip test A, Urine strip test B, particle count and estimation of density,

V

Varicella-zoster virus, antibodies, **30** Vitamin A, E and D metabolites, **11**

W

White blood cell count, HemoCue, POCT, **17** White blood cell differential count: HemoCue, POCT, **17**

Ζ

Zika virus, antibodies, 30



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LABQUALITY DAYS

International Congress on Quality in Laboratory Medicine and Health Technology

Labquality Days is one of the largest annual international congresses in Scandinavia focusing on quality in laboratory medicine and medical devices.

The inspiring atmosphere of the annual scientific congress gathers medical laboratory and quality management professionals to exchange ideas and meet colleagues in Helsinki, Finland in February 2023.

The main theme for the 2023 congress is Green and Sustainable Laboratories. The scientific programme covers Quality in Laboratory and Developing Health Technology.

Come and enjoy the warm scientific atmosphere and spend a few winter days in the beautiful capital of Finland!

More information at www.labqualitydays.com.





EUROPEAN FEDERATION OF CLINICAL CHEMISTRY AND LABORATORY MEDICINE

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