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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.com**. The list of accredited schemes will be provided upon request.

EQA service availability

Labquality has customers in over 60 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.fi.

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.

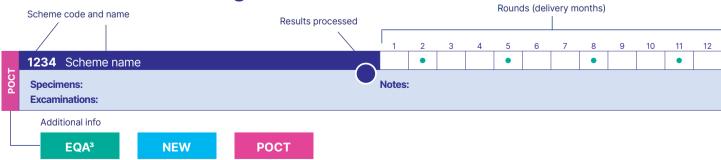
Certificate

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.com) 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.

Updates for 2024

New schemes and products

2707	Maternal	serum	screening
2/0/	IVIALEITIAI	3CI UIII	301001111114

- 8205 Pipette control
- 5254 Mycoplasma genitalium, drug resistance, nucleic acid detection
- 5253 Helicobacter pylori, nucleic acid detection
- 5088 HIV, antibodies and antigen detection, extra set of samples
- 5231 Mycobacterium tuberculosis, drug resistance, nucleic acid detection, extra set of samples
- 4389 D-dimer, extra set of samples
- 5683 Mpox (Monkeypox virus), nucleic acid detection
- 8850 DNA sequencing (EQUALIS)
- 8851 Quantification of ABO antibodies (EQUALIS)
- 8852 Titration of erythrocyte antibodies (EQUALIS)
- 8853 Iohexol (EQUALIS)
- 8854 Phosphatidyl ethanol in blood (EQUALIS)
- 8855 Alcohol biomarkers in urine (EQUALIS)

Changes in distribution schedule

- 5261 Fungal infections, nucleic acid detection (April and September)
- Multiple respiratory virus, nucleic acid detection (4 rounds/year)
- 5556 HSV1&2/VZV/Treponema pallidum, nucleic acid detection (April and October)

Discontinued schemes and products

- 4151 Reticulocyte count, automated: Cell-Dyn 4000, Saphire
- 4152 Reticulocyte count, automated: Coulter Gens, LH750
- 4155 Reticulocyte count, automated: Cell Dyn 3200, 3500, 3700, Ruby
- 4235 Leucocyte differential count, 5-part, automated: Coulter ACT5-diff

Changes in scope, specimens or parameters

- 2749 Faecal occult blood, quantitative: New artificial stool sample including human Hb (rounds 2 and 4).
- 5100 Blood culture (incl. sepsis multiplex methods): 3 samples/round.
- 5101 Blood culture, screening (incl. sepsis multiplex methods): 3 samples/round.
- 5670 Influenza virus A+B and RS virus, nucleic acid detection: 3 samples/round.
- HSV1&2/VZV/Treponema pallidum, nucleic acid detection: 3 samples/round.
- 5300 Respiratory infections multiplex, nucleic acid detection. Examinations: Bocavirus added.
- Toxoplasma, antibodies. Examinations: IgA antibodies removed.
- 5190 Faecal culture. Examinations: Antimicrobial susceptibility (rounds 2 and 4) added.
- 5930 Autoimmune liver disease and gastric parietal cell antibodies. Examinations: LKMAb removed.

Planned pilot schemes

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

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 10 12 **2675** Allergen component (UK NEQAS) Specimens: 2 liquid human serum samples for allergen component tests. Notes: Participation to all rounds required. Should be ordered Examinations: Allergen component test which covers recombinant allergens until the beginning of November. Limited availability. as well as the ISAC system. **2681** Allergy in vitro diagnostics (SKML) Specimens: 3 liquid human serum samples for specific IgEs with 3 allergens, Notes: Participation to all rounds required. Should be ordered until the 2 mixes and total IgE in each and some allergen components, 0.5 mL. beginning of November. All samples are distributed in February. Examinations: Total IgE, specific IgEs, allergen mixes and allergen components. 10 12 2670 Allergy in vitro diagnostics (UK NEQAS) **Specimens:** 2 liquid human serum samples for specific IgEs with 4 allergens Notes: Participation to all rounds required. Should be ordered until the in each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL. beginning of November. Limited availability. Examinations: Total IgE and specific IgEs. 2680 Eosinophil cationic protein Specimens: 1 lyophilized human serum sample, 0.3 mL. Notes: Results are processed in connection with total IqE results of **Examinations:** ECP. scheme 2670 2685 Tryptase (UK NEQAS) Specimens: 2 liquid human serum samples. Notes: Participation to all rounds required. Should be ordered until the **Examinations:** Tryptase. beginning of November. Limited availability. Clinical chemistry » Basic chemistry

Clinical chemistry » Basic chemistry

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, gamma glutamyltransferase, glucose, lactate dehydrogenase, magnesium, phosphorus, potassium, sodium, total protein, triglycerides, urea, uric acid.

2730 Erythrocyte sedimentation rate

Specimens: 1 artificial blood cell suspension, ~ 4 mL. **Examinations:** ESR.

Notes: Not suitable for Algor iSed.



2541 Myocardial markers and CRP, low concentration		1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 Human serum samples for myocardial markers, 1 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 for	labora POCT. er, pleas	If you	are no	t sure v	hethe	r your			
		1	2	3	4	5	6	7	8	9	10	11	12
2690 Natriuretic peptides 1, B-type, NT-ProBNP	3	•			•			•			•		
Specimens: 2 liquid samples, 3 mL. Examinations: NT-ProBNP.					linical la I cobas		ries ar	nd POC	T sites	. Also s	suitable	for Ro	che
		1	2	3	4	5	6	7	8	9	10	11	12
2691 Natriuretic peptides 2, B-type, BNP	<u></u>	•			•			•			•		
Specimens: 2 liquid samples, 3 mL. Examinations: BNP.		Notes	: For c	linical la	aborato	ries an	d POC	T sites.					
OFOO Termonia Landana ania T. data stian DOOT		1	2	3	4	5	6	7	8	9	10	11	12
2530 Troponin I and troponin T, detection, POCT	(3)												
Specimens: 2 fresh human serum samples or 2 liquid human samples, 1 ml Examinations: Detection of troponin I and troponin T.		for PC	CT, sc	heme 2	ind qua 2540 is eter or	for ana	alyzers	. If you	are no	t sure v	whethe	r your	
Clinical chemistry » Diabetes analysis		1	2	3	4	5	6	7	8	9	10	11	12
2570, 2580, 2590 Glucose meters	(3)		•	Τ		•				•		•	12
2570 for all glucose meters except Contour, HemoCue and On Call Plus 2580 for HemoCue meters 2590 for Contour meters		Notes	: 5 res		to the					olume 9	is suffi	cient 11	12
1261 Haemoglobin A1c, liquid samples	<u>(3)</u>		•		•		•		•		•		•
Specimens: 2 liquid blood samples, 0.5 mL. Examinations: HbA1c.		Notes	: Not s	suitable	for Afir	nion ins	strume	nts.					
		1	2	3	4	5	6	7	8	9	10	11	12
1263 Haemoglobin A1c, liquid samples, POCT	(3)				•		•				•		•
Specimens: 2 liquid blood samples, 0.5 mL. Examinations: HbA1c.		Notes	: Only	for PO	CT devi	ces. No	ot suita	ble for	Afinior	n instru	ments.		
		1	2	3	4	5	6	7	8	9	10	11	12
2526 Ketones (beta-hydroxybutyrate)	(3)			•							•		
Specimens: 2 human serum samples, 0.4 mL. Examinations: beta-hydroxybutyrate.					tes and me is s			atories.	3 resu	ılts pro	cessec	l with o	ne
Clinical chemistry » Endocrinology		ā				_	•	_	•	•	46	44	40
		1	2	3	4	5	6	7	8	9	10	11	12
Clinical chemistry » Endocrinology 2300, Hormones A: Basic analytes of hormone and immunochemistry	(3)	1	2	3	4	5	6	7	8	9	10	11	12
2300, Hormones A: Basic analytes of hormone and		Notes perfor schem	: 2300 ming t	OS is a li	mited vof 1–5 auct 230	ersion nalytes	of the	schem	e availa	able fo	r labora	entories der	
2300, Hormones A: Basic analytes of hormone and 2300S immunochemistry Specimens: 2 human serum samples with differing concentrations, 3 mL each. Liquid serum sample (one level) included in Apr and Oct rounds Pre- and/or post-analytical cases in part of the rounds. Examinations: Ferritin, folate, hCG (total, intact), T3, free T3, T4, free T4, T5		Notes perfor schem	: 2300 ming t	OS is a li esting of	mited vof 1–5 auct 230	ersion nalytes	of the	schem	e availa	able fo	r labora	entories der	
2300, Hormones A: Basic analytes of hormone and 2300S immunochemistry Specimens: 2 human serum samples with differing concentrations, 3 mL each. Liquid serum sample (one level) included in Apr and Oct rounds Pre- and/or post-analytical cases in part of the rounds. Examinations: Ferritin, folate, hCG (total, intact), T3, free T3, T4, free T4, T5		Notes perfor schen analyz	: 2300 ming t ne 130 ers or	OS is a li esting of 0. Prod metho	mited vof 1–5 auct 230ds.	ersion nalytes 00S do	of the s. For a es not	schem addition include	e availa al set o report	able fo of sam ing fro	r labora ples, or m mult	• atories der iple	•
2300, Hormones A: Basic analytes of hormone and 2300S immunochemistry Specimens: 2 human serum samples with differing concentrations, 3 mL each. Liquid serum sample (one level) included in Apr and Oct rounds Pre- and/or post-analytical cases in part of the rounds. Examinations: Ferritin, folate, hCG (total, intact), T3, free T3, T4, free T4, T5 vitamin B12, active vitamin B-12, pre- and/or post-analytical indicators.		Notes perfor schem analyz	2 23000 ming the 1300 ters or	OS is a li esting of 0. Prod method	mited vof 1–5 auct 230ds.	ersion nalytes 00S doo	of the s. For a es not	schem ddition include	e availa al set o report	able fo of sam ing fro	r labora ples, or m mult	• atories der iple	12

LDL, cortisol, creatine phosphokinase, creatinine, ferritin, gamma-glutamyltransferase, glucose, haptoglobin, IgA, IgE, IgG, IgM,

available for laboratories performing testing of 1–5 analytes. Product 1072S does not include reporting from multiple analyzers or methods.

General clinical chemistry, 2050 (3 2-level sera (serum B and C)

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

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

10

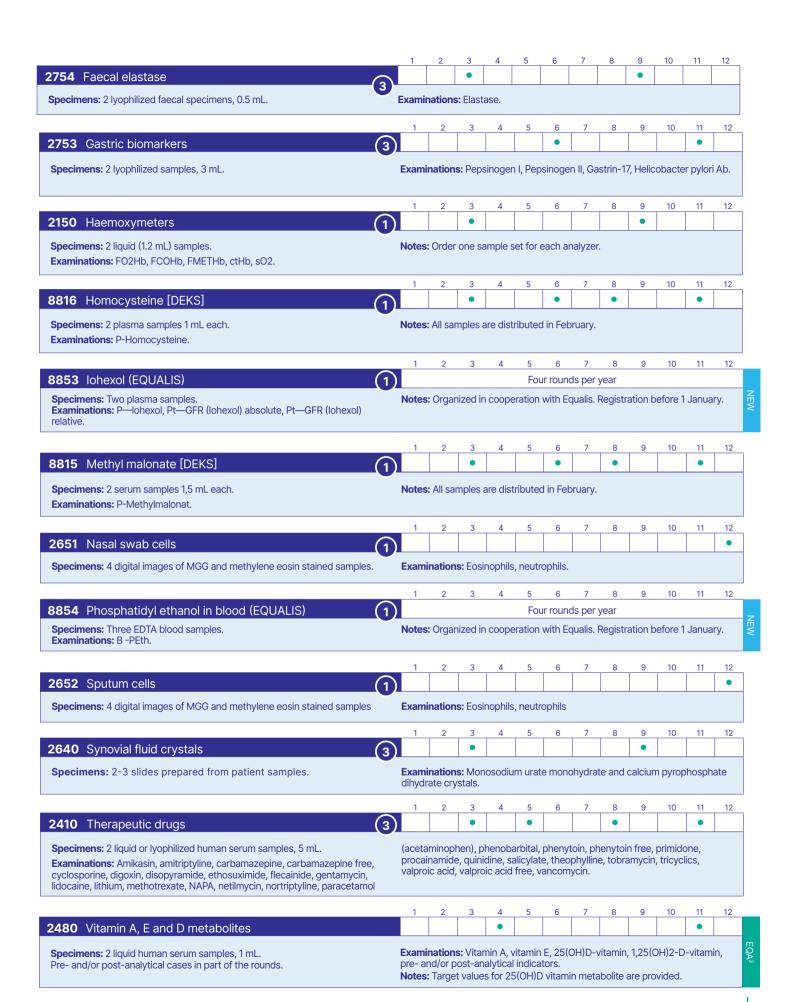
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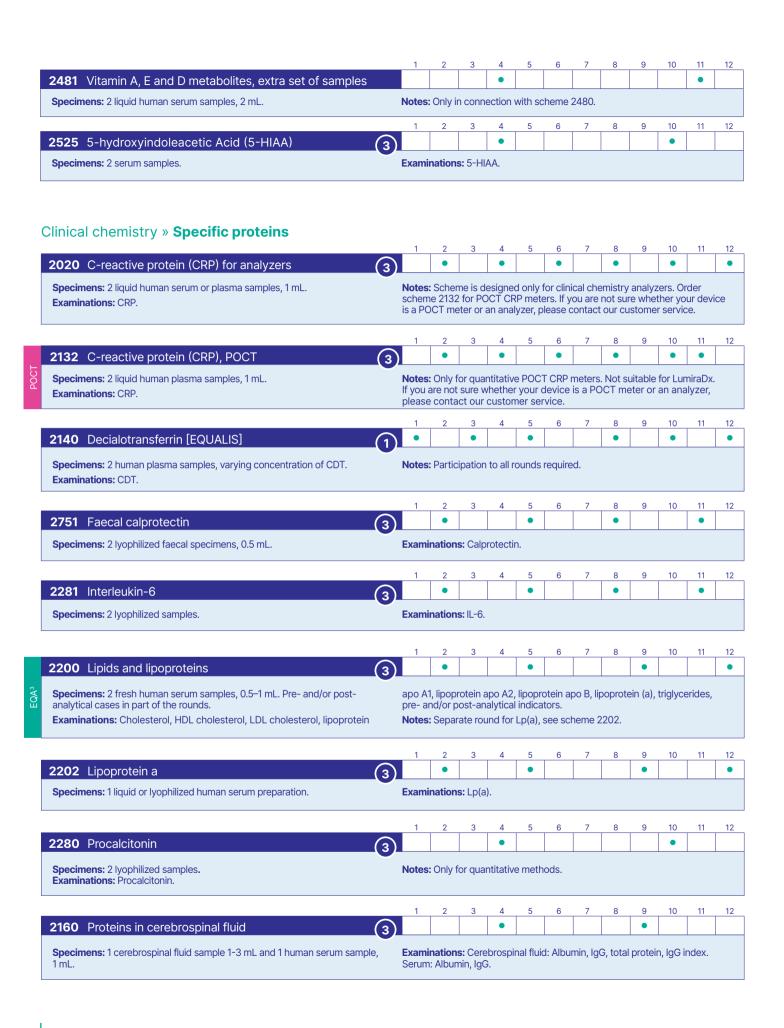
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12

Clinical chemistry » Special chemistry









Clinical chemistry and haematology

Clinical chemistry and haematology » Percentiler and flagger programs

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.

Twelve rounds per year

Notes: Each participant will receive log in information giving access to the laboratories results and allowing dynamic on-line monitoring of mid-to long-term stability of performance and flagging rate. Laboratories can choose to participate in The Percentiler program only.

3500 Percentiler program (Noklus)

Specimens: Results from selected patient groups are used to calculate instrument-specific daily medians.

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.

Twelve rounds per year

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 emails.

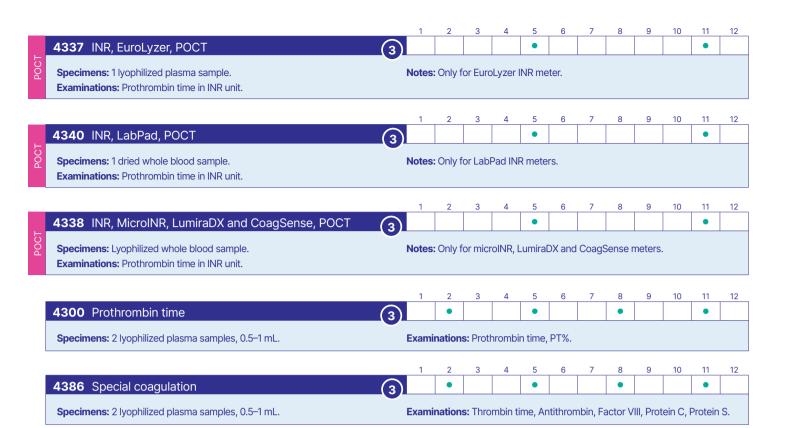
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Haematology

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.







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 culture

5101 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

2115 Haemoglobin, 1-level HemoCue 801 and HemoCue 301

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

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

5635 Dengue virus, antibodies and antigen detection

5640 EBV mononucleosis, POCT

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

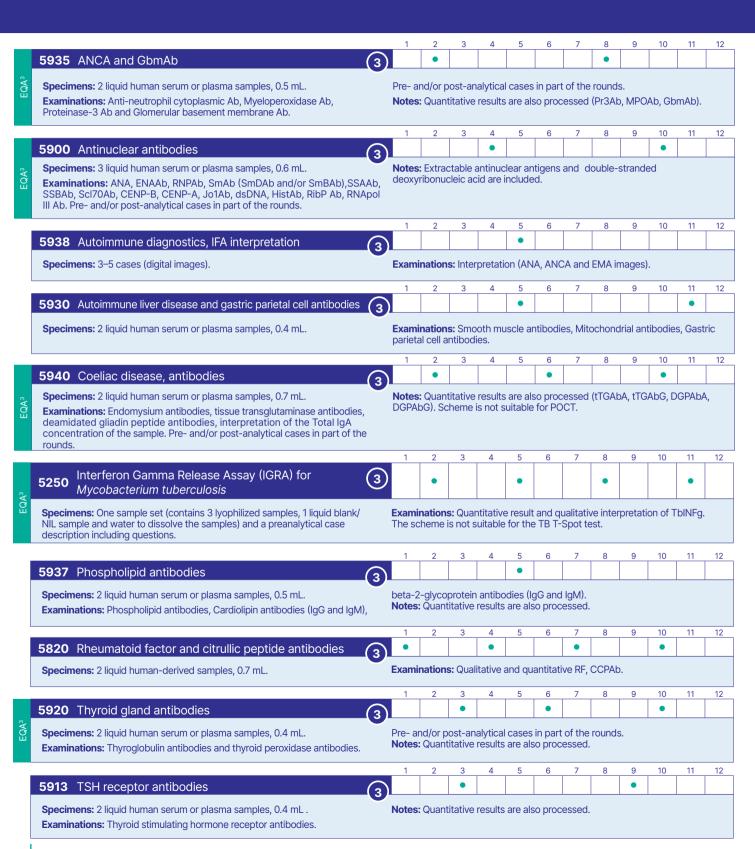
Preanalytics

7801 Preanalytics, urine and blood sample collection

7804 Preanalytics, POCT in chemistry

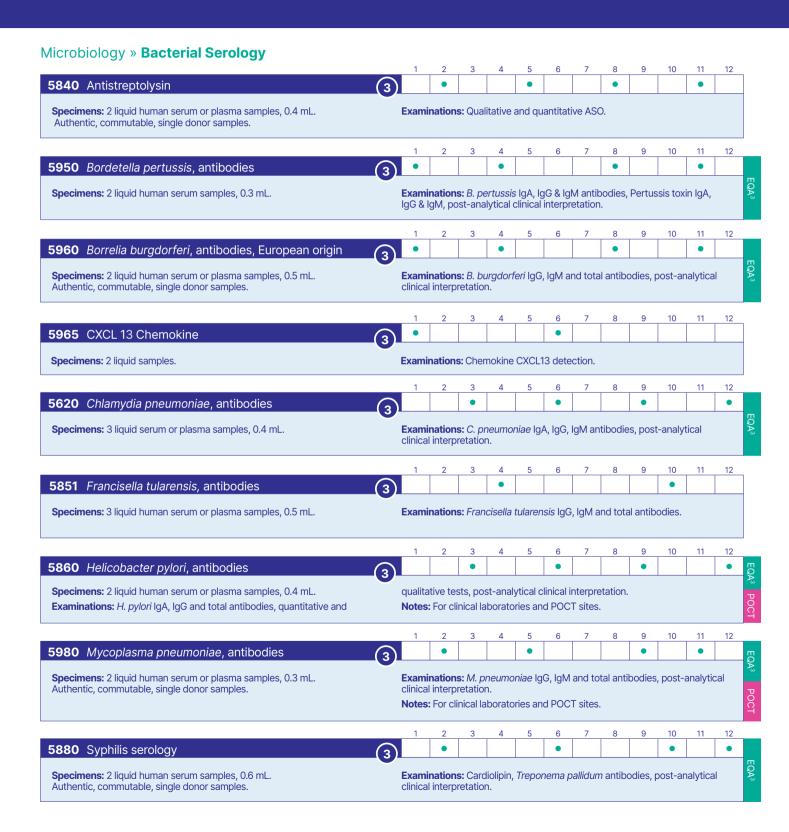
Immunology

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 » Bacteriology

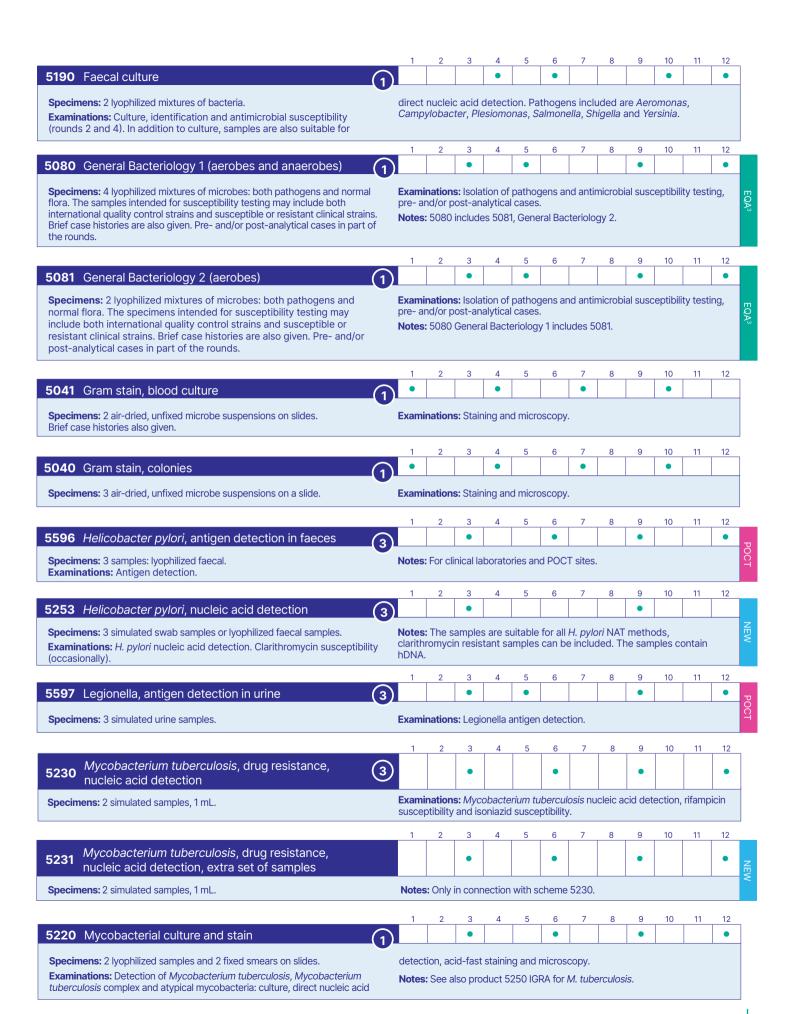
10 12 5050 Bacteriological staining, direct (3) Specimens: 3 cases, 3-9 digital images. **Examinations:** Interpretation of digital images taken from direct bacteriological Gram staining of clinical samples. 10 • 5100 Blood culture (incl. sepsis multiplex methods) Specimens: 3 lyophilized samples. Brief case histories also given. Fresh Examinations: Culture, identification, antimicrobial susceptibility testing. blood is needed in the specimen preparation. The samples intended for Direct nucleic acid detection from positive blood culture bottles by multiplex susceptibility testing may include both international quality control strains and methods is included in the scheme. clinical strains. Notes: Fresh blood is needed but not included in the shipment. 12 Blood culture, screening (incl. sepsis multiplex (1)5101 methods) Specimens: 3 lyophilized samples. Brief case histories also given. Fresh methods. The scheme is also suitable for stem cell banks screening only for blood is needed in the specimen preparation. possible growth. **Examinations:** Culture, preliminary identification using Gram staining and/or Notes: Fresh blood is needed but not included in the shipment. direct nucleic acid detection from positive blood culture bottles by multiplex 5150 Cerebrospinal fluid, bacterial culture Specimens: 2 lyophilized samples. Brief case histories are also given. Notes: See also scheme 5303 Meningitis-encephalitis multiplex, nucleic acid detection. **Examinations:** Culture and identification. The scheme is also suitable for laboratories performing screening and reporting merely a preliminary identification. Chlamydia trachomatis and Neisseria gonorrhoeae, 5612 (з nucleic acid detection Notes: See also scheme 5302 Sexually transmitted diseases multiplex, Specimens: 3 simulated swab/urine samples, 2 mL **Examinations:** Detection of *C. trachomatis* and *N. gonorrhoeae* nucleic acid. nucleic acid detection. The samples contain hDNA. 5200 Clostridioides difficile, culture and toxin detection Specimens: 2 lyophilized mixtures of bacteria. **Examinations:** This scheme includes C. difficile culture, antigen detection (GDH), toxin detection and direct nucleic acid detection. Hypervirulent C. difficile strains also included. **5202** Clostridioides difficile, extra set of samples Specimens: 2 lyophilized mixtures of bacteria. Notes: Only in connection with scheme 5200 5201 Clostridioides difficile, nucleic acid detection Specimens: 2 lyophilized mixtures of bacteria. Examinations: C. difficile direct nucleic acid detection. Hypervirulent C. difficile strains also included. Notes: 5200 includes also this examination 10 12 5191 Faecal bacterial pathogens multiplex, nucleic acid detection Specimens: 3 samples. Either lyophilized mixtures of bacteria and/or EIEC, E. coli EPEC, E. coli ETEC, Plesiomonas, Salmonella, Shigella and simulated samples, 1 mL. Yersinia.

Notes: During the period of one calendar year, a comprehensive selection of

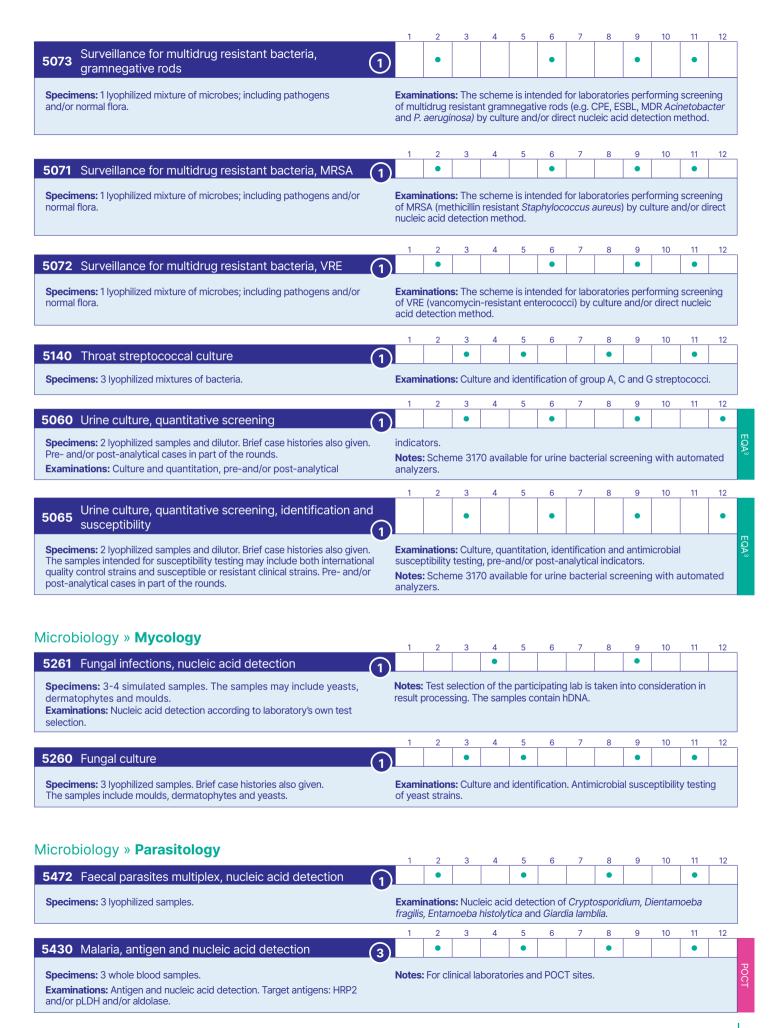
listed pathogens will be covered.

Examinations: Direct nucleic acid detection. Pathogens included are

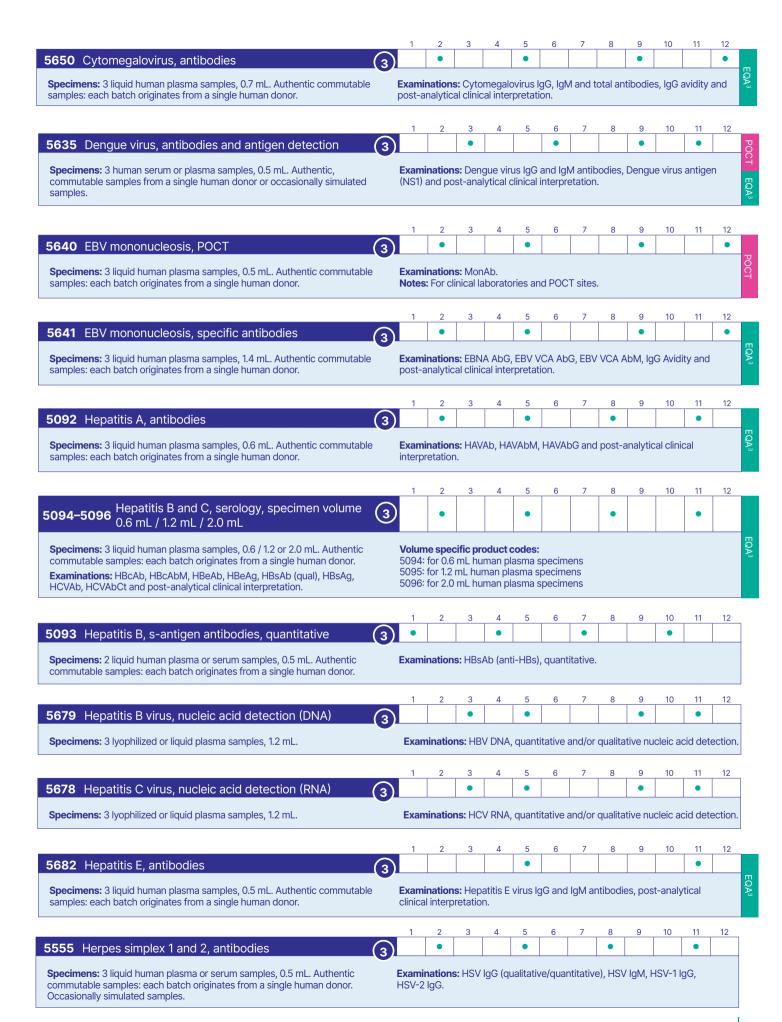
Aeromonas, Campylobacter, E. coli EHEC (stx1/stx2), E. coli EAEC, E. coli



	1	2	3	4	5	6	7	8	9	10	11	12
5221 Mycobacterial nucleic acid detection	Ω		•			•			•			•
Specimens: 2 lyophilized samples. Examinations: Direct nucleic acid detection.		s: 5220 i			this exa	aminat	ion. Fo	r addit	ional se	et of sa	mples,	
	1	2	3	1	5	6	7	ρ	Q	10	11	12
5222 Mycobacteria, extra set of samples			•	_	3	•			•	10	T ''	•
Specimens: 2 lyophilized samples.	Notes	: Only i	n conn	ection	with sc	heme	5220 c	or 5221				
	1	2	3	4	5	6	7	8	9	10	11	12
5240 Mycobacterial stain	1)		•			•			•			•
Specimens: 2 fixed smears on slides.	Exam	ination	s: Acid	-fast st	aining	and mi	icrosco	ору.				
	1	2	3	4	5	6	7	8	9	10	11	12
5254 <i>Mycoplasma genitalium</i> , drug resistance, nucleic acid detection	3			•							•	
Specimens: 3 simulated swab samples. Examinations: M. genitalium nucleic acid detection, macrolide (azithromycin) susceptibility.	and p	s: The s rimarily olide res	intend	ded for	metho	ds det	tecting	point				
	1	2	2	1	5	6	7	Ω	9	10	11	12
5120 Neisseria gonorrhoeae (Gc), culture and susceptibility testing			•	4	•	0	/	•		10	11	12
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.		ination suitable									y testin	ng.
	1	2	3	4	5	6	7	8	9	10	11	12
5180 Salmonella culture				•		•				•		•
Specimens: 2 lyophilized mixtures of bacteria. Examinations: Culture.	Notes	5190 a	also ind	cludes	5180.							
5599 Streptococcus agalactiae (GBS), nucleic acid detection	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 swab samples. Samples also include normal flora. Examinations: Direct nucleic acid detection.	Notes (GBS)	: The sa	amples	s contai	n hDN	A. See	also pi	roduct	5594 f	or S. a	galactia	ne
5594 Streptococcus agalactiae (GBS), culture		7	3	4	5	6	/	8	9	10	11	12
Specimens: 2 lyophilized samples. Samples include pathogens and/or normal flora.	Exami	inations: See al			599 for	direct	nuclei	c acid (detecti	on.		
	1	2	3	4	5	6	7	8	9	10	11	12
5598 Streptococcus pneumoniae, antigen detection in urine	3		•		•				•			•
Specimens: 2 simulated uring specimens	Evom	ination	c. C nr	oumor	ino ant	tiaon d	lotootic	าท				
Specimens: 3 simulated urine specimens.	Exam	ination	s: S. pr	neumor	niae ant	tigen d	letection	on.				
·	1	ination 2	s: S. pr	eumor 4	niae ant	tigen d	letection 7	on. 8	9	10	11	12
Ctrantagaggya nyaganga (Crayn A) antigan datagtian d	1	2	s: <i>S. pr</i>	4	5	6	7	on. 8	9	10	11	12
Streptococcus pyogenes (Group A), antigen detection	3	2 E For cli	3	4	5	6	7	8	9	10	11	
5595 Streptococcus pyogenes (Group A), antigen detection in pharyngeal sample Specimens: 3 simulated pharyngeal samples.	3	2	3	4	5	6	7	8	9	10	11	•
5595 Streptococcus pyogenes (Group A), antigen detection in pharyngeal sample Specimens: 3 simulated pharyngeal samples. Examinations: Antigen detection. Streptococcus pyogenes (Group A), nucleic acid	3	2 S: For cli	3 • inical la	4	5 •	6	7	8				



	Malaria screening, Giemsa stain	1	2	3	4	5	6	7	8	9	10	11	12
8	ens: 2 methanol fixed or Giemsa stained smears. Brief case histories	Exam	ination	s: Preli	iminary	scree	ning of	f malar	ria plas	modia.		I	
9	en.												
		1	2	3	4	5	6	7	8	9	10	11	1:
	Malaria screening, MGG stain		•			•			•			•	
6	ens: 2 methanol fixed or May-Grünwald-Giemsa stained smears. se histories are also given.	Exam	ination	s: Prel	iminary	/ scree	ning of	f malar	ria plas	modia.	•		
	Davasitas in bland Ciamas stain	1	2	3	4	5	6	7	8	9	10	11	1
	Parasites in blood, Giemsa stain 3												
	ens: 2 methanol fixed or Giemsa stained smears. Brief case histories en.		ination parasit		ening a	and ide	ntificat	ion of	malaria	plasm	odia ar	nd othe	r
	Describes in laboral Oissure stairs sintended asians.	1	2	3	4	5	6	7	8	9	10	11	1
	Parasites in blood, Giemsa stain, virtual microscopy (5)	_										•	
	ens: 2 virtual whole slide images of Giemsa stained smears prepared g a scanner microscope. Brief case histories also given.		ination parasit		ening a	and ide	ntificat	tion of	malaria	a plasm	nodia ar	nd othe	r
		1	2	3	4	5	6	7	8	9	10	11	1
	Parasites in blood, MGG stain		•			•			•			•	
	ens: 2 methanol fixed or May-Grünwald-Giemsa stained smears. see histories are also given.		ination parasit		ening a	and ide	ntificat	tion of	malaria	plasm	nodia ar	nd othe	r
		1	2	3	4	5	6	7	8	9	10	11	
	Parasites in blood, MGG stain, virtual microscopy 5											•	
	ens: 2 virtual whole slide images of MGG stained smears prepared by scanner microscope. Brief case histories also given.		ination parasit	es.									
	Parasites in faeces	1	2	3	4	5	6	7	8	9	10	11	
	Parasites in faeces ens: 3 stool samples in formalin. Brief case histories also given.	Exam i parasi	ination	s: Scre	ening a	and ide	ntificat	tion of	intestir	nal para	asites (d	ova and	ı
		1	2	3	4	5	6	7	8	9	10	11	
	Parasites in faeces, virtual microscopy 5				•			<u> </u>			•		
	ens: Virtual whole slide images of stool samples in formalin prepared g a scanner microscope. Brief case histories also given.	Exam parasi	ination ites).	s: Scre	ening a	and ide	ntificat	ion of	intestir	nal para	asites (d	ova and	ı
		1	2	3	4	5	6	7	8	9	10	11	
	Toxoplasma, antibodies 3		•			•			•			•	
9	ens: 3 liquid human plasma samples, 0.7 mL each. Brief case histories en. Authentic commutable samples: Each sample batch originates single human donor.		ination ical clin				gM and	d total	antiboo	dies, Ig	G avidit	ty, post	-
	Trichomonas vaginalis, detection	1	2	3	4	5	6	7	8	9	10	11	
	ens: 3 simulated samples.	Notes	: The s	ample	s conta	in hDN	۱A.						
3	ations: Detection of <i>Trichomonas vaginalis</i> antigen and acid (NAT).												
i	iology » Virology												
		1	2	3	4	5	6	7	8	9	10	11	1
(CMV and EBV, nucleic acid detection, quantitative 3			•						•			
	ens: 5 samples simulating plasma, 1.5 mL ations: CMV and EBV NAT (quantitative).	Notes	: Quant	titative	result	oroces		sing.	ssing.	sing.	sing.	sing.	sing.



5680 HIV-1, nucleic acid detection (RNA)			3	4	5	6		8	9	10	11	1
6680 HIV-1, nucleic acid detection (RNA))				•							
Specimens: 3 lyophilized or liquid plasma samples, 1.2 mL.	Exam detec		ns: HIV	′-1 RNA	, quant	itative	and/or	qualit	ative n	ucleic a	acid	
	1	2	3	4	5	6	7	8	9	10	11	1
091 HIV, antibodies and antigen detection 3		•			•			•			•	
Specimens: 3 liquid human plasma 0.7 mL.	confirn	natory	tests, p		alytica					orimary sitive sp		ns
	1	2	3	4	5	6	7	8	9	10	11	1
6088 HIV, antibodies and antigen detection, extra set of sample	:S	•			•			•			•	
Specimens: 3 liquid human plasma 0.7 mL.	Notes:	: Only i	n conne	ection v	with scl	neme 5	5091.					
1000 LINV antihadias and antigan datastian DOOT	1	2	3	4	5	6	7	8	9	10	11	
090 HIV, antibodies and antigen detection, POCT (3)												
Specimens: 3 liquid human plasma 0.5 mL. Examinations: HIVAb and HIVAgAb primary tests (POCT).	Notes: laborat		scheme	is only	for PO	C tests	. Sche	me 50)91 is fo	or clinic	al	
	1	2	3	4	5	6	7	8	9	10	11	1
556 HSV1&2/VZV/Treponema pallidum, nucleic acid detection 3												
pecimens: 3 samples simulating swab samples taken from lesions. xaminations: Nucleic acid detection of HSV1, HSV2, VZV, <i>Treponema</i> allidum.	Notes:	The s	amples	contai	in hDN	A.						
	1	2	3	4	5	6	7	8	9	10	11	
O86 Human papillomavirus, nucleic acid detection (3)				•			•			•		
specimens: 2 simulated samples, 1 mL. ixaminations: High-risk human papillomavirus NAT (hrHPVNAT). HPV lenotypes included are: 16, 18, 31, 33, 39, 45, 51, 52, 66, 67.				nucleic a n hDNA		ethods	used i	n cerv	rical car	ncer sc	reenin	j .
	1	2	3	4	5	6	7	8	9	10	11	
089 Human T-cell lymphotropic virus, antibodies 3		•			•			•			•	
Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.										st-analy or HTL\		
	1	2	3	4	5	6	7	8	9	10	11	
670 Influenza virus A+B and RS virus, nucleic acid detection (3		•									•	
	Notos	See a	lso sch	eme 53	300 Res	spirato	ry infe	ctions	multiple	lex, nuc	leic ac	id
	detect		5562 M tain hDl		respira	tory vir	us, nu	cieic a	cia det	ection.	1110	
	detect				respira 5	tory vir	7 nu	8	9	tection.	11	1
xaminations: InfANAT, InfBNAT, RSVNAT.	detecti sample				•		7 7					
6671 Influenza virus A+B, antigen detection Specimens: 3 liquid and/or swab samples.	detecti sample	2 • For cli	3 inical la	NA. 4 borator	5 ies and	6 B POCT	7 sites.	8 The s	9 amples		11	
671 Influenza virus A+B, antigen detection pecimens: 3 liquid and/or swab samples.	detecti sample	2 • For cli	3 inical la Γ metho	4 borator	5 ies and	6 H POCT e sche	7 sites.	8 The s 70 or \$	9 amples 5562.	10 s are no	11 • ot suital	ble
671 Influenza virus A+B, antigen detection pecimens: 3 liquid and/or swab samples. xaminations: InfAAg, InfBAg.	detecti sample	2 • For cli	3 inical la	NA. 4 borator	5 ies and	6 B POCT	7 sites.	8 The s	9 amples	10	11	ble
6671 Influenza virus A+B, antigen detection Specimens: 3 liquid and/or swab samples. Examinations: InfAAg, InfBAg. 668 Measles virus, antibodies	notes:	2 • For cli or NAT	3 inical la Γ metho	boratorods, ple	5 ries and ase se	6 POCT e sche	7 sites.me 56	8 The s 70 or \$	9 amples 5562.	10 s are no	11 • ot suital	ble
671 Influenza virus A+B, antigen detection Specimens: 3 liquid and/or swab samples. Examinations: InfAAg, InfBAg. 668 Measles virus, antibodies Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic	Notes: for IFA	2 For cli or NAT	3 inical la Γ metho	boratorods, ple	5 ries and ase se	6 POCT e sche	7 sites.me 56	8 The s 70 or \$	9 amples 5562.	10 s are no	11 • ot suital	ble
6671 Influenza virus A+B, antigen detection Specimens: 3 liquid and/or swab samples. Examinations: InfAAg, InfBAg. 668 Measles virus, antibodies Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.	Notes: for IFA	2 For cli or NAT	3 inical la Γ metho 3	boratorods, ple	5 ries and ase se	6 POCT e sche	7 sites.me 56	8 The s 70 or \$	9 amples 5562.	10 s are no	11 • ot suital	ble 1
6671 Influenza virus A+B, antigen detection Specimens: 3 liquid and/or swab samples. Examinations: InfAAg, InfBAg. 668 Measles virus, antibodies Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.	Notes: for IFA Examin clinical	2 For cli or NAT	3 inical la Γ metho 3	boratorods, ple	5 ries and ase se	6 POCT e sche	7 sites.me 56	8 The s 70 or \$	9 amples 5562.	10 10 10 end ost-anal	11 ot suital 11 lytical	ble
6671 Influenza virus A+B, antigen detection Specimens: 3 liquid and/or swab samples. Examinations: InfAAg, InfBAg. 668 Measles virus, antibodies Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor. 6562 Multiple respiratory virus, nucleic acid detection 6562 Specimens: 3 simulated swab samples.	Notes: for IFA Examinclinical Notes:	2 • For clid or NAT 2 mation interp	inical la retho s: Measretation 3 cheme	boratorods, ple 4 • sles viru 4 •	ies ancease se	6 POCTe sche 6 and IgN	7 7 sites 7 7 1 antib	The s 770 or \$	9 amples 5562. 9 and po	10 10 10 ost-anal	11 ot suital	ble
5671 Influenza virus A+B, antigen detection Specimens: 3 liquid and/or swab samples. Examinations: InfAAg, InfBAg. 3668 Measles virus, antibodies Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor. 5662 Multiple respiratory virus, nucleic acid detection Specimens: 3 simulated swab samples.	Notes: for IFA Examinclinical Notes:	2 • For clid or NAT 2 mation interp	inical la retho s: Measretation 3 cheme	boratorods, ple	ies ancease se	6 POCTe sche 6 and IgN	7 7 sites 7 7 1 antib	The s 770 or \$	9 amples 5562. 9 and po	10 10 10 ost-anal	11 ot suital	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Specimens: 3 liquid and/or swab samples. Examinations: InfAAg, InfBAg. G668 Measles virus, antibodies Specimens: 3 liquid human plasma samples, 0.5 mL. Authentic commutable samples: each batch originates from a single human donor.	Notes: for IFA Lexamin clinical Notes: SARS-	2 • For clid or NAT 2 mation interp	inical la retho s: Measretation 3 cheme	boratorods, ple	ies ancease se	6 POCTe sche 6 and IgN 6 for TM contain	7 7 sites 7 7 1 antib	The s 770 or \$	amples 5562. 9 and po	10 10 10 ost-anal 10 ologic A	11 ot suital 11 lytical 11 Aptima	ble



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EQA schemes including Antimicrobial Susceptibility Testing

Bacteriology and mycology

- 5100 Blood culture
- 5190 Faecal culture (rounds 2 and 4)
- 5260 Fungal culture
- 5080 General Bacteriology 1
- 5081 General Bacteriology 2
- 5253 Helicobacter pylori, nucleic acid detection
- 5230 Mycobacterium tuberculosis, drug resistance, nucleic acid detection
- 5254 *Mycoplasma genitalium*, drug resistance, nucleic acid detection
- 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

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
- 5253 Helicobacter pylori, nucleic acid detection
- 5221 Mycobacterial nucleic acid detection
- 5230 Mycobacterium tuberculosis, drug resistance, nucleic acid detection
- 5254 Mycoplasma genitalium, drug resistance, 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

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 detection
- 5430 Malaria, antigen and nucleic acid detection
- 5473 Trichomonas vaginalis, detection

Virology

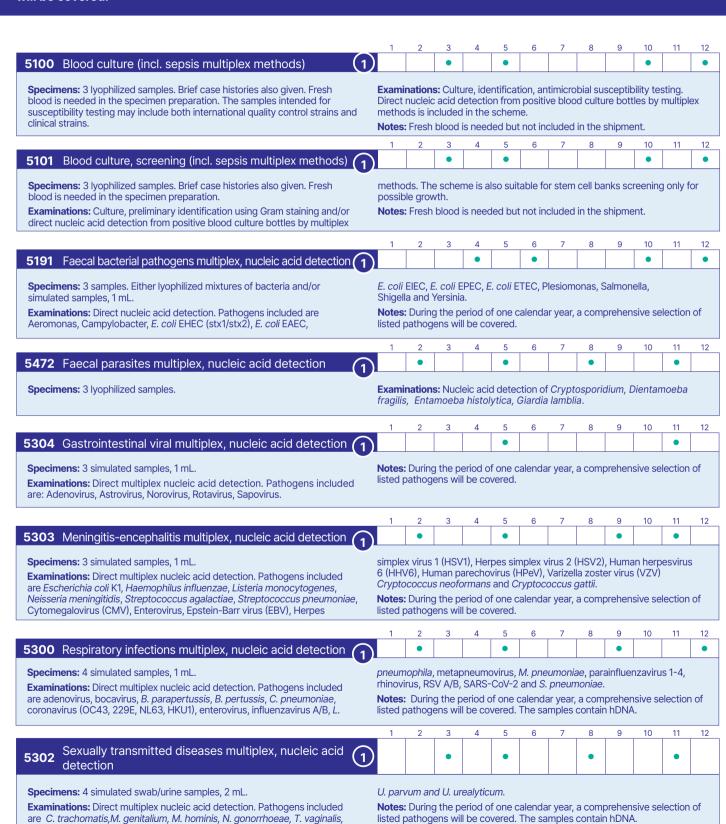
- 5651 CMV and EBV, nucleic acid detection, quantitative
- 5679 Hepatitis B virus, nucleic acid detection (DNA)
- 5678 Hepatitis C virus, nucleic acid detection (RNA)
- 5680 HIV-1, nucleic acid detection (RNA)
- 5556 HSV1&2/VZV/T. pallidum, nucleic acid detection
- 5086 Human papillomavirus, nucleic acid detection
- 5670 Influenza virus A+B and RS virus, nucleic acid detection
- 5562 Multiple Respiratory Virus, nucleic acid detection
- 5683 Mpox (Monkeypox 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.



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 **7806** Preanalytics and process in anatomic pathology 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 6701 Gynaecological cytology (liquid based), virtual microsco Specimens: Virtual images of at least 5 Papanicolaou stained slides of liquid **Examinations:** Observations and diagnoses. based cytology (LBC) samples (ThinPrep). Diagnostics of cellular atypias in Notes: Virtual microscopy program does not work with Internet Explorer. samples taken from gynaecological loci is assessed. Brief case histories and instructions are provided. 12 6700 Gynaecological cytology (smear), virtual microscopy Specimens: Virtual images of at least 5 Papanicolaou stained slides of Examinations: Observations and diagnoses. conventional pap smear samples. The samples are selected from routine Notes: Virtual microscopy program does not work with Internet Explorer. cytological material. Diagnostics of cellular atypias in samples taken from gynaecological loci is assessed. Brief case histories and instructions are 11 12 10 6542 Histopathology, virtual microscopy Topics 2023: 1/2024 Skin pathology, 2/2024 Urothelial tumors 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. 6702 Non-gynaecological cytology, virtual microscopy Specimens: Virtual images of Papanicolaou stained slides of non-**Examinations:** Observations and diagnoses. gynaecological cytosentrifuge (CCF) or smear preparations or May-Grünwald Notes: Virtual microscopy program does not work with Internet Explorer. -Giemsa stained smears or imprint preparations. Images of at least 5 cases from representative loci. Brief case histories and instructions are provided. Pathology » Technology **6543** Histological staining techniques Examinations: Staining of the slides. A set of stained slides is returned to Topics: 1/2024 Masson Trichrome, Reticulin 2/2024 Helico-GIEMSA, AB-PAS. Labquality for evaluation by an expert board. **Specimens:** Unstained paraffin sections or smears. Notes: Stains vary annually. 9 10 11 12 6600, 6600S Immunohistochemical staining methods Topics: 1/2024 Unknown tumour: CD34, alfa-SMA, S-100, CD117, CYT5/6 Examinations: Staining of the slides. A set of stained slides is returned to

Labquality for evaluation by an expert board.

round (6600S for 3 antibodies, 6600 for 5).

Notes: Changes in frequency, antibodies and sample type. Three rounds with distinct topics available annually. Multiblock samples are now

included. Participants can select 3 or 5 antibodies of their choice in each

blocks or from one multiblock.

2/2024 Breast cancer: PR, HER2, ER, Ki-67 ja HER2 -ISH* *) also double

stain accepted, but no FISH 3/2024 Lymphoma: CD3, CD5, CD43, CD45,

Specimens: Unstained paraffin embedded tissue from different tissue

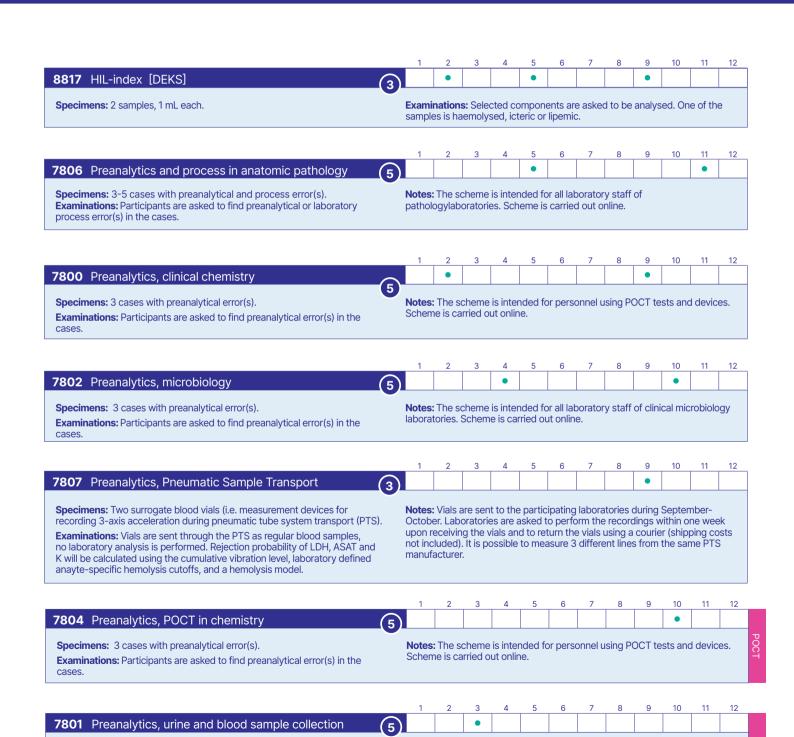
Preanalytics

Specimens: 3 cases with preanalytical error(s).

cases.

Examinations: Participants are asked to find preanalytical error(s) in the

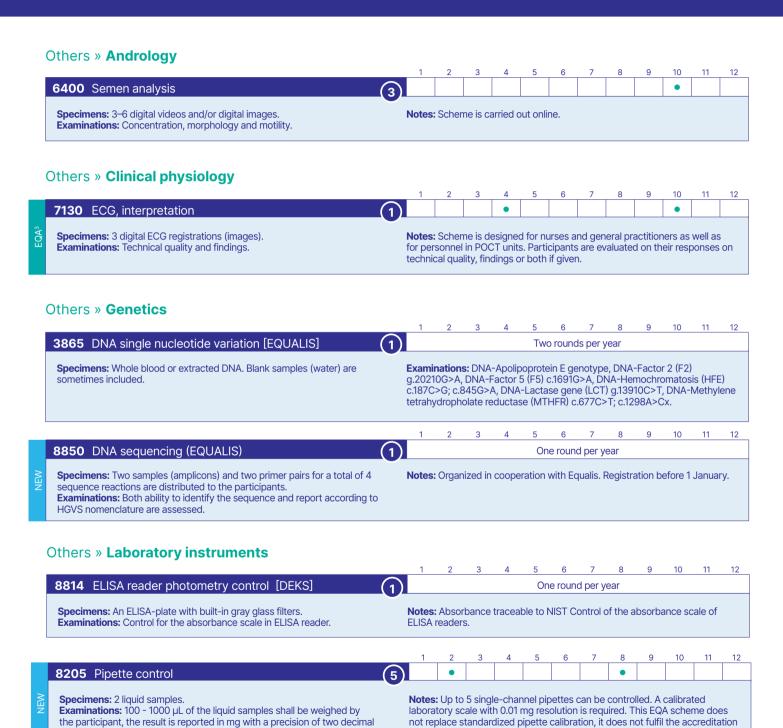
The preanalytical schemes provide laboratories and POCT sites with tools for extending quality assurance beyond the commonly assessed analytical phase. As a result of the improved analytical quality, most errors have been suggested to now occur in the preanalytical phase. Managing all phases of the total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



Notes: The scheme is intended for personnel performing blood and urine

sample collection. Scheme is carried out online.

Others



requirements for pipette calibration.

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

	HIL-index [DEKS] Preanalytics, clinical chemistry	Preanalytics, Pneumatic sample transport Preanalytics, POCT in chemistry
	Preanalytics, microbiology	Preanalytics, urine and blood sample collection
7806	Preanalytics and process in anatomic pathology	

Integrated EQA programs

Clinical chemistry

2570, 2580, 2590 Glucose meters	2200	Lipids and lipoproteins
2114 Haemoglobin, 1-level, POCT	2240	Proteins, electrophoresis
2300, 2300S Hormones A: Basic analytes of hormone and	2050	Serum B and C (2-level)
immunochemistry	2480	Vitamin A, E and D metabolites
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

Microbiology

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

5960 Borrelia burgdorferi, antibodies, European origin

5635 Dengue virus, antibodies and antigen detection 5641 EBV mononucleosis, specific antibodies

5080 General Bacteriology 1 (aerobes and anaerobes)

5950 Bordetella pertussis, antibodies

5620 Chlamydia pneumoniae, antibodies 5650 Cytomegalovirus, antibodies

5081 General Bacteriology 2 (aerobes)5860 Helicobacter pylori, antibodies5092 Hepatitis A, antibodies

5094-5096 Hepatitis B and C, serology

5682 Hepatitis E, antibodies

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

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