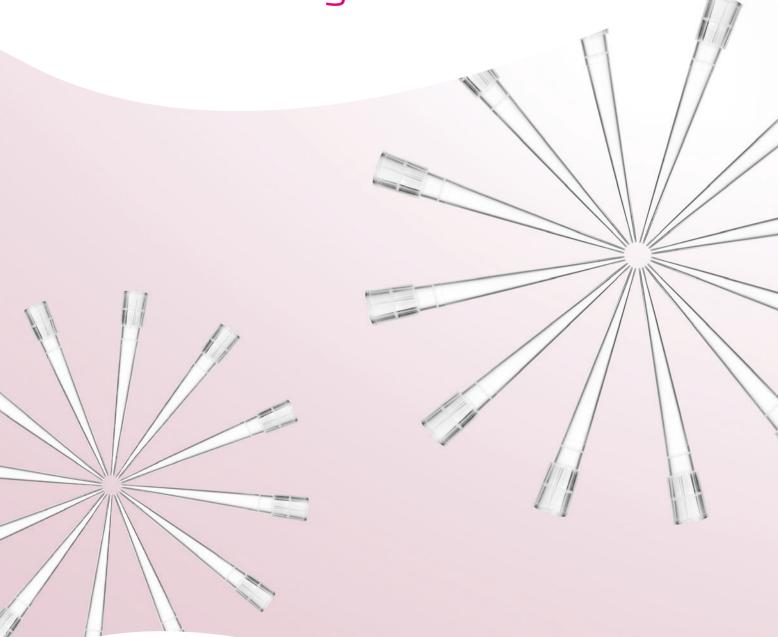


External Quality Assessment





LABQUALITY

KUMPULANTIE 15, FI-00520 HELSINKI, FINLAND TEL. +358 9 8566 8200 | FAX +358 9 8566 8280 WWW.LABQUALITY.FI/EN | INFO@LABQUALITY.FI



Product Catalogue 2022

4	Service information
5	Updates for 2022
6 6 7	Clinical chemistry » Allergology » Basic chemistry » Cardiac markers
8 8 9 9 10 12 13	 » Diabetes analysis » Endocrinology » General long-term clinical chemistry, known concentration » General short-term clinical chemistry, unknown concentration » Special chemistry » Specific proteins » Tumour markers » Urine analysis
5	Percentile and flagger programs
6 16 16 17	Haematology » Blood transfusion serological tests » Cell count and cell morphology » Coagulation
9	Blood banks and transfusion medicine
9	Point-of-Care
0	Immunology
21	Microbiology
21 22	» Bacterial Serology» Bacteriology
25	» Mycology
25 26	» Parasitology» Virology
0	Nucleic acid detection
31	Multiplex
2	Pathology
32	» Preanalytics
32	» Diagnostics
32	» Technology
3	Preanalytics
4	Others
34	» Andrology
14	» Clinical physiology» Genetics
34 34	» Lenetics » Laboratory instruments
5	Pre- and postanalytical EOA programs

Alphabetical scheme directory

36

Service information

Labquality - EQAS

Labquality is a Finnish independent external quality assessment provider. Labquality has 50 years of experience in helping clinical laboratories and POCT sites to 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, who 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 intergrated schemes inlude 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 main EQA schemes are accredited according to ISO 17043 (PT02/FINAS). The scope of accreditation is available on FINAS´ website: www.finas.fi, and accreditation status of the EQA schemes is available on our website: www.labquality.fi. 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 available via national partners globally. 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 next year before the end of November to ensure the participation to 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 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 via 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 guarantees an advanced experience.

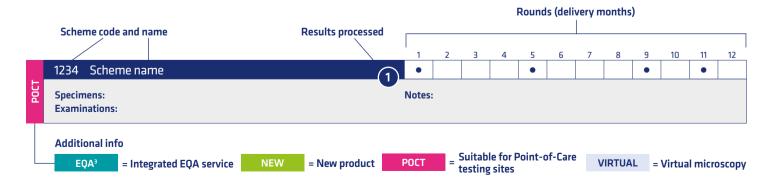
Certificate

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

Customer service

Please contact Labquality's national partner (listed on Labquality's web site: www.labquality.fi) or our customer service (English) at 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 2022

New schemes and products

- 2281 Interleukin-6 (p.12)
- 5851 Francisella tularensis, antibodies (p.21)
- 5651 CMV and EBV, nucleic acid detection, quantitative (p.26)
- 2753 Gastric biomarkers (p.11)
- 2526 Ketones (beta-hydroxybutyrate), POCT (p.8)
- 5562 Multiple Respiratory Virus nucleic acid detection (p.28)
- 7807 Preanalytics, Pneumatic Sample Transport (p.33)

Discontinued schemes

4238 Leucocyte differential count, 5-part, automated: Abacus

Changes in distribution schedule

- 4480 Column agglutination methods: grading of reactions and patient cases
- 5635 Dengue virus, antibodies and antigen detection
- 5472 Faecal parasites multiplex, nucleic acid detection
- 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
- 5470 Parasites in blood, Giemsa stain, virtual microscopy
- 5471 Parasites in blood, MGG stain, virtual microscopy
- 5473 *Trichomonas vaginalis*, detection
- 3170 Urine bacterial screening with automated analyzers

Changes in scope, specimens or parameters

5300 Respiratory infections multiplex, nucleic acid detection New parameters: SARS-CoV-2 and S. pneumoniae.

Planned pilot schemes

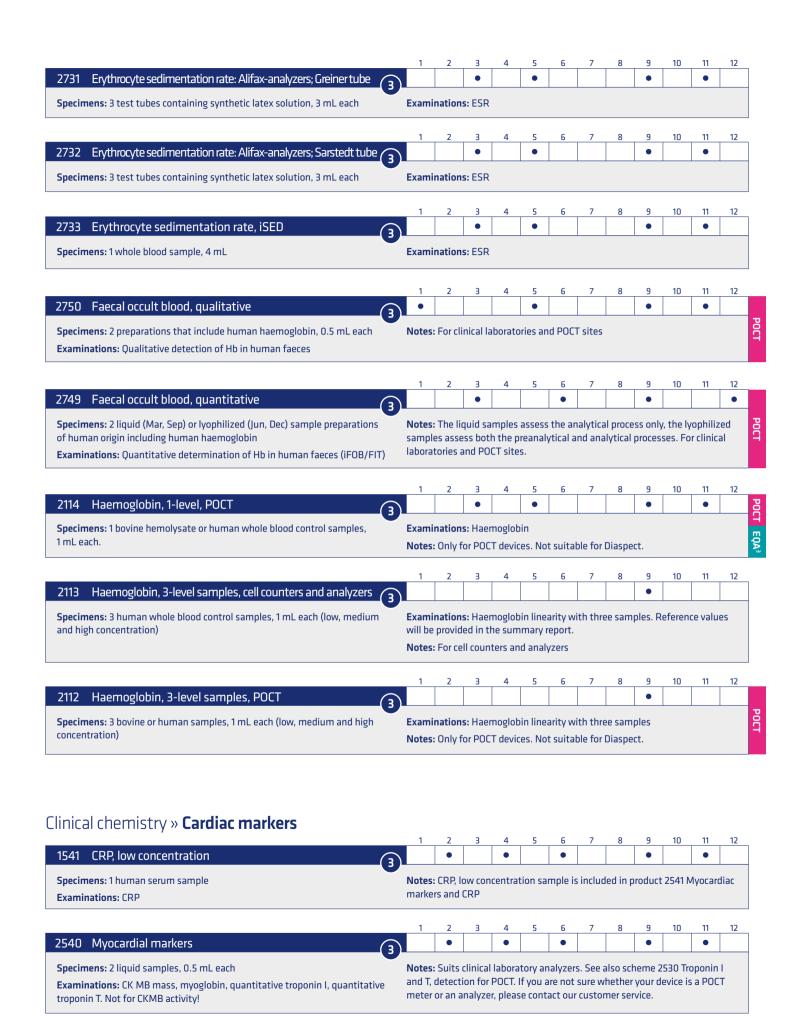
Information about pilot contents and schedules will be announced later. Pilot schemes are EQA schemes under our product development.

Clinical chemistry

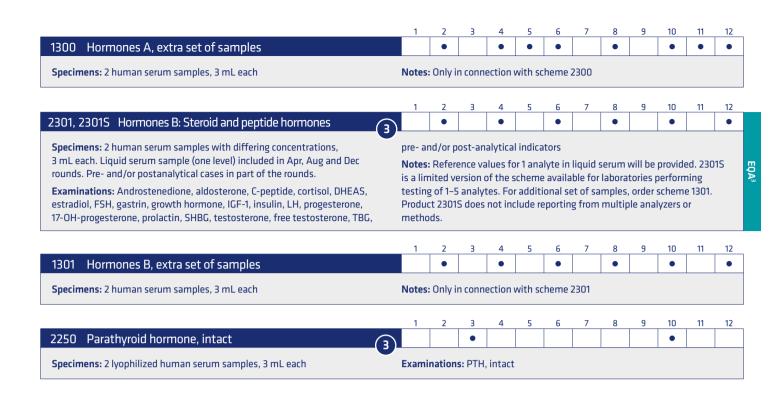
The clinical chemistry portfolio covers areas of allergology, basic chemistry, cardiac markers, diabetes analysis, endocrinology, special chemistry, specific proteins, tumour markers and urine analysis. For routine chemistry needs, schemes with both one and two level samples enabling assessment of more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

Clinical chemistry » Allergology 2675 Allergen component [UK NEQAS] Specimens: 2 liquid human serum samples for allergen component tests Notes: Participation to all rounds required. Should be ordered until the beginning of November. Limited availability. **Examinations:** Allergen component test which covers recombinant allergens as well as the ISAC system 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 2 mixes and total IgE in each and some allergen components, 0.5 mL each until the 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 in each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL until the 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 IgE results of scheme 2670. **Examinations: ECP** 2685 Tryptase [UK NEQAS] Specimens: 2 liquid human serum samples Notes: Participation to all rounds required. Should be ordered until the beginning of November. Limited availability. **Examinations:** Tryptase Clinical chemistry » Basic chemistry 2100 Basic chemistry, POCT analyzers Specimens: 2 human serum samples, 1 mL each gamma glutamyltransferase, glucose, lactate dehydrogenase, magnesium, phosphorus, potassium, sodium, total protein, triglycerides, urea, uric acid Examinations: Alanine aminotransferase, albumin, alkaline phosphatase, amylase (total and pancreatic), aspartate aminotransferase, calcium, Notes: For clinical laboratories and POCT sites. Only for dry chemistry analyzers. chloride, HDL cholesterol, cholesterol, creatinekinase, creatinine, If you are not sure whether your device is a POCT meter or an analyzer, please contact our customer service. Erythrocyte sedimentation rate Specimens: 1 artificial blood cell suspension, ~ 4 mL Notes: Not suitable for Algor iSed

Examinations: ESR







Clinical chemistry » General long-term clinical chemistry, known concentration

1031 DayTrol, human serum

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

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

1072, 10725 Serum A, lyophilized samples Specimens: Lyophilized serum sample, 3 mL each, samples are iron, lactate, lactate dehydrogenase, lithium, magnesium, oroso-mucoid, selected to cover a wide concentration range osmolality, phosphorus, potassium, protein, selenium, sodium, thyreotropin, thyroxine, thyroxine free, TIBC, transferrin, transferrin receptor, triglycerides,

urea, uric acid

Examinations: Alanine aminotransferase, albumin, alkaline phosphatase, alpha-1-antitrypsin, alpha-1-glykoprotein, amylase, amylase (pancreatic), 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,

Notes: Samples for multiple rounds shipped simultaneously. Monthly processing of results included. 1072S is a limited version of the scheme available for laboratories performing testing of 1-5 analytes. Product 1072S does not include reporting from multiple analyzers or methods.

2050 Serum B and C (2-level)

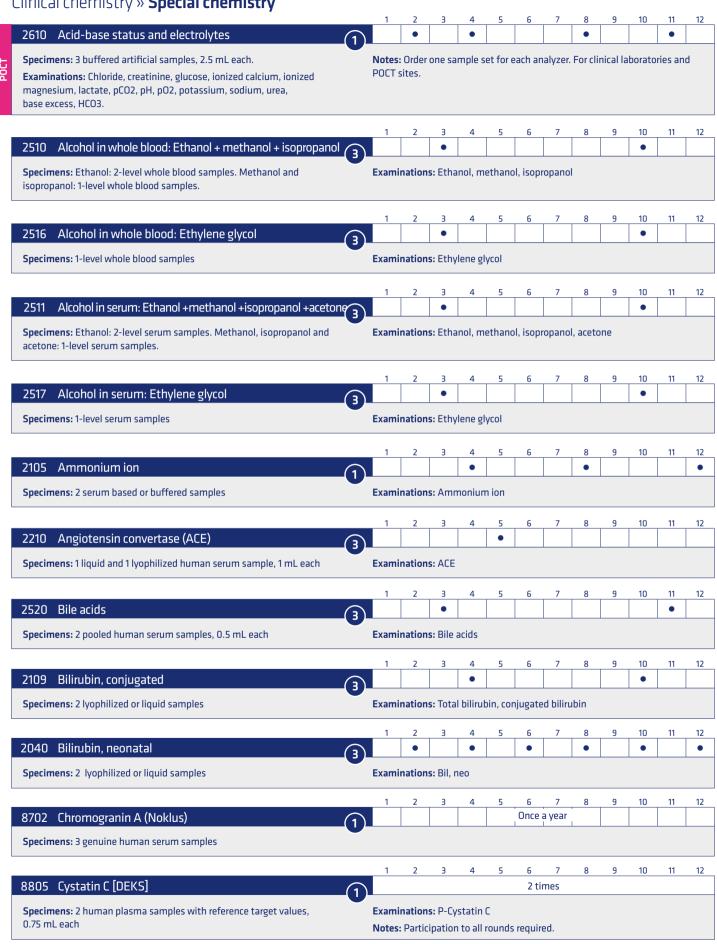
Specimens: 2 liquid human serum samples covering a wide concentration range, 3-5 mL each

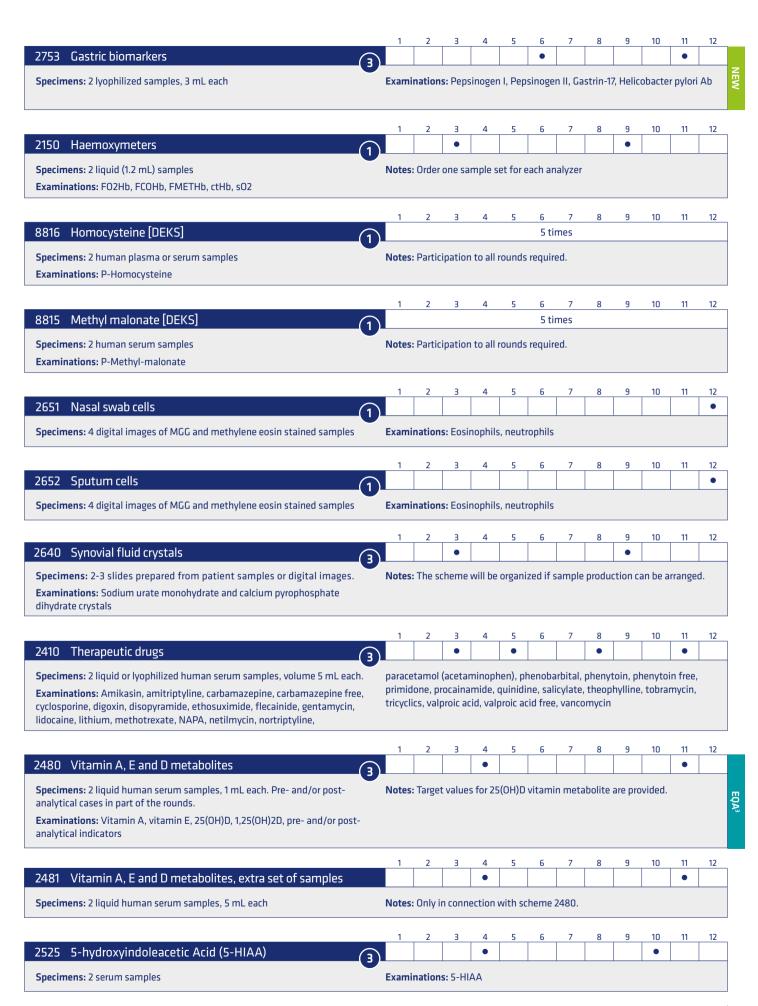
Examinations: Alanine aminotransferase, albumin, alfa-1-antitrypcine, alfa-1-glycoprotein, alkaline phosphatase, amylase, pancreas amylase, aspartate aminotransferase, bilirubin, ferritin, phosphate, glucose, glutamyltransferase, haptoglobin, IgA, IgE, IgG, IgM, potassium, calcium, ionized calcium, ionized 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: Reference values for common analytes are included

Clinical chemistry » Special chemistry





Clinical chemistry » Specific proteins 2020 C-reactive protein (CRP) for analyzers Specimens: 2 liquid serum or plasma samples, 1 mL each Notes: Scheme is designed only for clinical chemistry analyzers. Order scheme 2132 for POCT CRP meters. If you are not sure whether your device is **Examinations: CRP** a POCT meter or an analyzer, please contact our customer service. C-reactive protein (CRP), POCT • Specimens: 2 human serum samples, 1 mL each Notes: Only for quantitative POCT CRP meters. If you are not sure whether your device is a POCT meter or an analyzer, please contact our customer service. **Examinations: CRP** 2140 Decialotransferrin [EQUALIS] Specimens: 2 human plasma samples, varying concentration of CDT Notes: Participation to all rounds required. **Examinations: CDT** 10 11 12 2751 Faecal calprotectin Specimens: 2 lyophilized faecal specimens, 0.5 mL each Examinations: Calprotectin 2281 Interleukin-6 Specimens: 2-3 lyophilized samples Examinations: IL-6 2200 Lipids and lipoproteins Specimens: 2 fresh human serum samples, 0.5-1 mL each. Pre- and/or postlipoprotein apo A2, lipoprotein apo B, lipoprotein (a), triglycerides, analytical cases in part of the rounds. pre- and/or post-analytical indicators Examinations: Cholesterol, HDL cholesterol, LDL cholesterol, lipoprotein apo A1, Notes: Separate round for Lp(a), see scheme 2202 2202 Lipoprotein a Specimens: 1 liquid or lyophilized human serum preparation Examinations: Lp(a) 10 2280 Procalcitonin Specimens: 2 lyophilized samples Notes: Only for quantitative methods **Examinations:** Procalcitonin 2160 Proteins in cerebrospinal fluid Specimens: 1 cerebrospinal fluid sample 1-3 mL and 1 human serum sample, Examinations: Cerebrospinal fluid: Albumin, IgG, total protein, IgG index. Serum: Albumin, IgG. 1 mL Proteins, electrophoresis Specimens: 2 liquid or lyophilized human serum samples, 1 mL each. Examinations: Electrophoresis, contains immunofixation, pre- and/or post-Pre- and/or post-analytical cases in part of the rounds. analytical indicators Proteins, immunochemical determinations IgA, IgG, IgLcKappa, IgLcLambda, IgLcKappa free, IgLcLambda free, IgM, Specimens: 2 liquid human serum samples, 1 mL each. orosomucoid, pre-albumin, RBP, transferrin, transferrin receptor. Examinations: Alpha-1-antitrypsin, alpha-2-macroglobulin, albumin, ceruloplasmin, complement C3, complement C4, haptoglobin, hemopexin,

Clinical chemistry » Tumour markers 2703 Anti-Müllerian hormone Specimens: 2 liquid human serum samples, 1 mL each Examinations: Anti-Müllerian hormone 2226 Prostate specific antigen Specimens: 2 liquid human serum samples, 1 mL each Examinations: PSA, complexed PSA, free PSA, free/total PSA ratio 2700, 2700S Tumour markers Specimens: 2 liquid human serum samples, 2 mL each Notes: 2700S is a limited version of the scheme available for laboratories performing testing of 1-5 analytes. Product 2700S does not include reporting Examinations: AFP, CA 125, CA 153, CA 199, CEA, ferritin, hCG (total, from multiple analyzers or methods intact, beta-subunit), PSA, PSA free, PSA free/total index, TG, TG antibodies, beta-2-microglobulin, NSE, HE4 2701 Tumour markers, extra set of samples Specimens: 2 liquid human serum samples, 2 mL each Notes: Only in connection with scheme 2700 Clinical chemistry » Urine analysis 10 3240 Albumin and creatinine in urine Specimens: 2 liquid human urine samples with spiked albumin and Examinations: Albumin, creatinine, albumin-creatinine ratio creatinine. 4 mL each Notes: Only for quantitative methods 3300 Drug of abuse screening in urine phencyclidine, phentanyle, pregabalin, salicylate, tramadol, tricyclic Specimens: 2 authentic samples, 5 mL each antidepressants Examinations: alpha PVP, amphetamines, barbiturates, benzo-diazepines, buprenorphine, cannabinoids, carbamazepine, cocaine metabolites, codeine, Notes: For clinical laboratories and POCT sites. Expert laboratory dextropropoxyphene, EDDP, gammahydroxybutyrate (GHB), ketamine, confirmatory results are provided. Results are reported as positive or LSD, MDMA+MDA (Ecstasy), MDPV, metamphetamines, metaqualone, negative. methadone metabolites, morphine, opiates, oxycodone, paracetamol, 3270 Pregnancy test Specimens: 2 fresh urine samples, 1 mL each Notes: For clinical laboratories and POCT sites Examinations: Qualitative hCG Urine bacterial screening with automated analyzers 3 Specimens: 1 lyophilized bacterial specimen and lyophilized synthetic urine Examinatios: Bacterial, erythrocytes and leukocytes counting sample 3200 Urine, identification of cells and other particles (digital images

Specimens: 4 digital images

Examinations: Identification of cells and other particles

3160 Urine quantitative chemistry	1	2	3	4	5	6	7	8	9	10	11	12	
Specimens: 1 lyophilized or liquid urine, 8–10 mL	glucos	Examinations: Albumin, amylase, calcium, chloride, cortisol-free, creatinine, glucose, inorganic phosphate, magnesium, osmolality, pH, potassium, protein, relative density, sodium, urea, uric acid											
	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	Notes: For clinical laboratories and POCT sites. Water for dissolution available, see scheme 3101, should be ordered separately.												
	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 connection with scheme 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		•		•				•			<u></u>	
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).	count only b used l of the	Notes: Also suitable for automatic analyzers (erythrocytes and leukocytes counting). The arbitrary concentrations of the obtained strip test results will only be collected in order to avoid different groupings of positive categories used by different strip tests and user laboratories. Water for dissolution of the lyophilized sample available, see scheme 3131, should be ordered separately.											
	1	2	3	4	5	6	7	8	9	10	11	1:	

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**

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

3500 Percentiler program (Noklus)

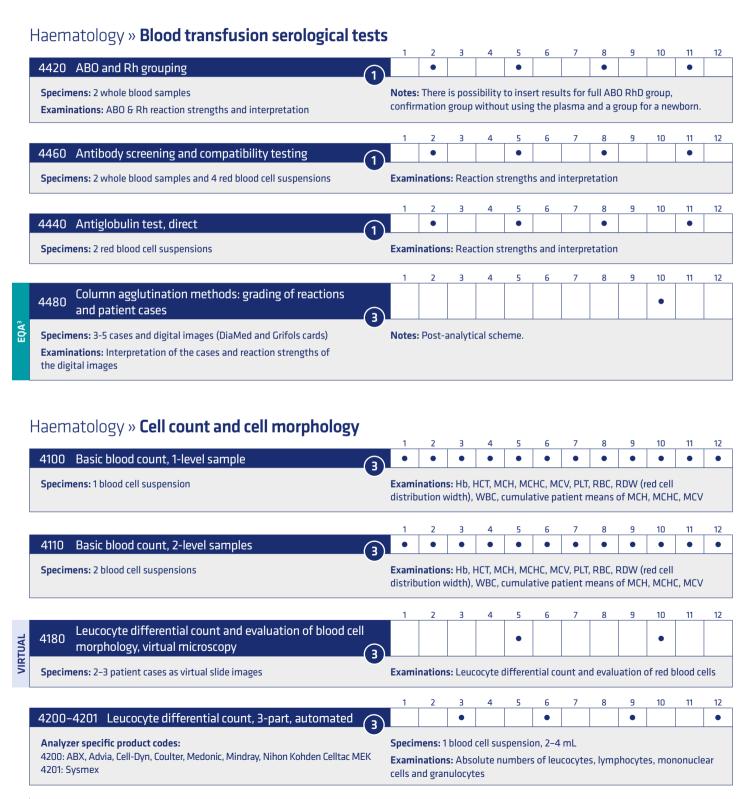
Specimens: results from selected patient groups are used to calculate instrument-specific daily medians

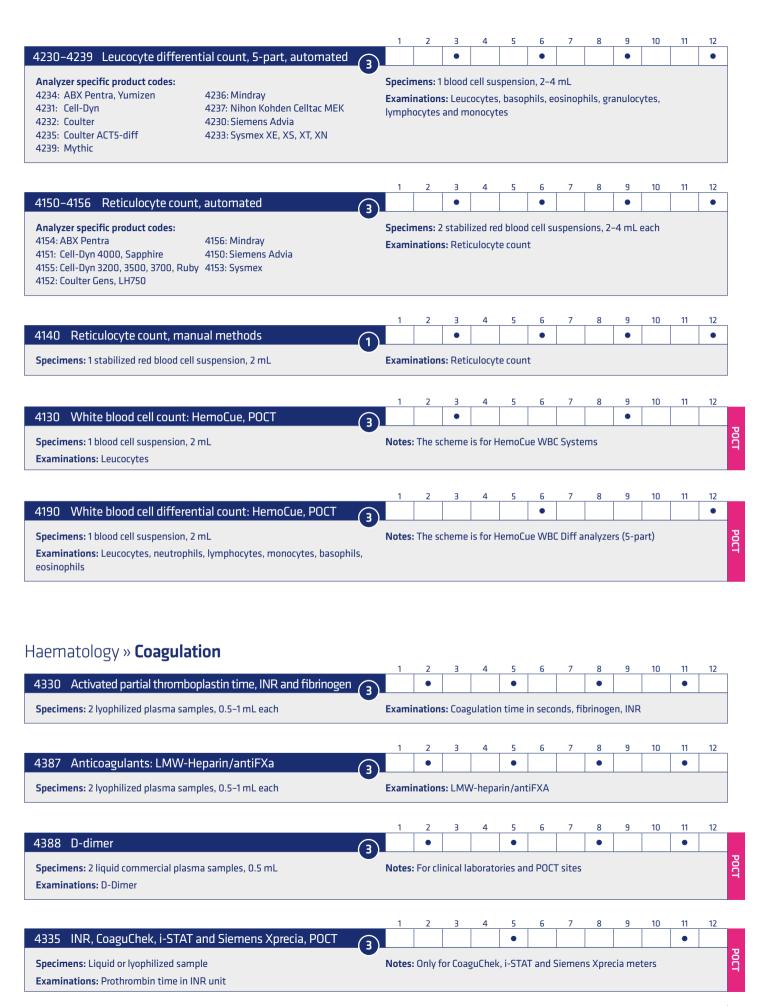
Examinations: ALP, ALT, AST, bilirubin, BUN, calcium, cholesterol, chloride, creatinine, CRP, ferritin, folate, FT4, GGT, glucose, Hb, HbA1c, HDL-cholesterol, IgA, IgG, IgM, IgA, K, LDH, MCV, magnesium, Na, phosphate, PLT, protein, PSA, PTH, RBC, triglycerides, TSH, urea, uric acid, vitamin B12, vitamin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

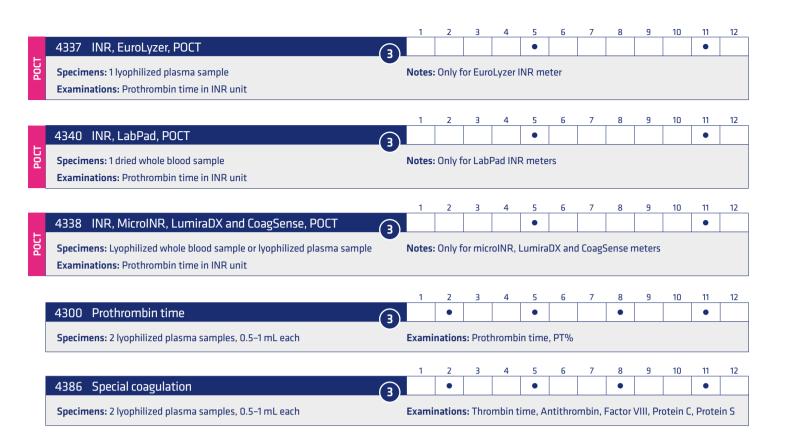
Notes: Participating laboratories calculate, and report instrument-specific medians based on patient results. The total number of patient results is also reported. Ideally, patient medians are reported daily, but less frequent reporting is also possible. Results are exported to a central database by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







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 EOA 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

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

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

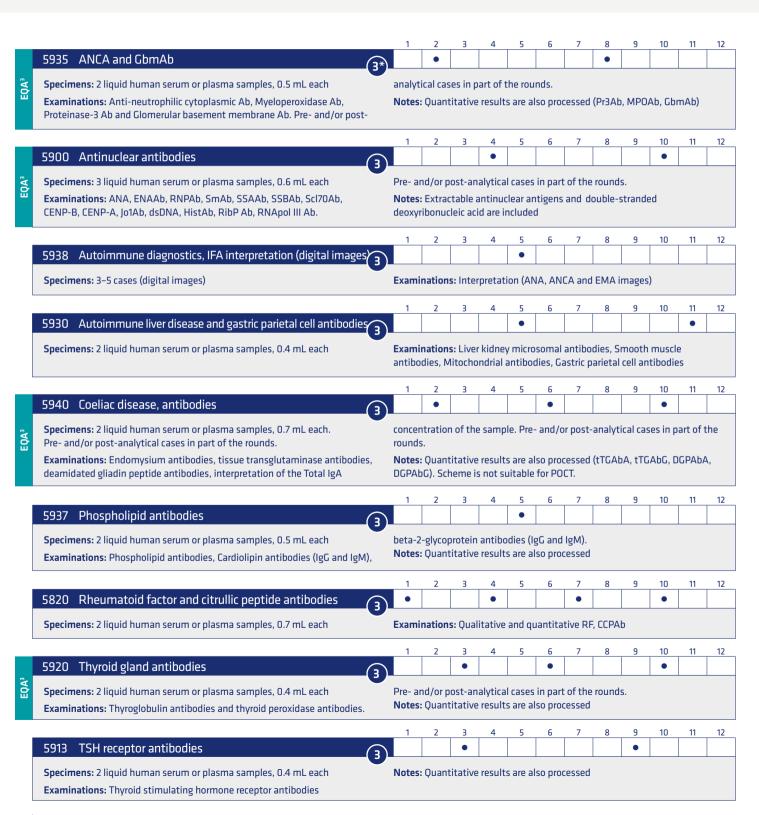
Preanalytics

7801 Preanalytics, urine and blood sample collection

7804 Preanalytics, POCT in chemistry

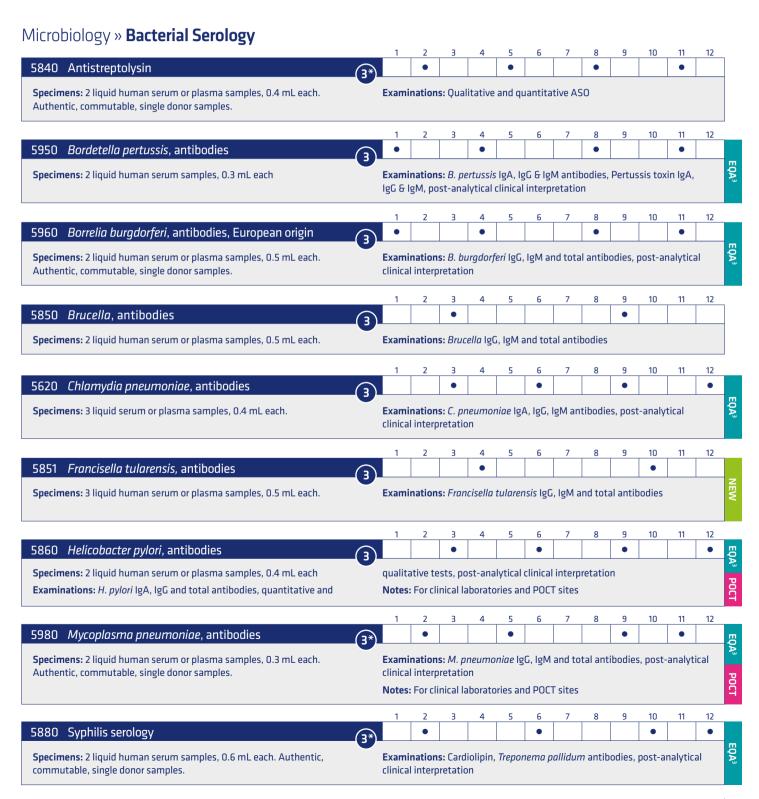
Immunology

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 5050 Bacteriological staining, direct (digital images) Specimens: 3 cases, 3-9 digital images Examinations: Interpretation of digital images taken from direct bacteriological Gram staining of clinical samples 10 Blood culture 5100 • Specimens: 2 lyophilized samples. Brief case histories also given. Fresh blood Examinations: Culture, identification, antimicrobial susceptibility is needed for specimen preparation. The samples intended for susceptibility Notes: Fresh blood is needed but not included in the shipment testing may include both international quality control strains and susceptible or resistant clinical strains. 5101 Blood culture, screening Specimens: 2 lyophilized samples. Brief case histories also given. Fresh blood Examinations: Culture, preliminary identification using Gram staining. is needed for sample preparation. The scheme is also suitable for stem cell banks screening only for possible Notes: Fresh blood is needed but not included in the shipment 5150 Cerebrospinal fluid, bacterial culture Specimens: 2 lyophilized samples. Brief case histories 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 nucleic acid detection Specimens: 3 simulated swab/urine samples (à 2 mL) Notes: See also scheme 5302 Sexually transmitted diseases multiplex, Examinations: Detection of C. trachomatis and N. gonorrhoeae nucleic acid nucleic acid detection 5200 Clostridium 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 Clostridium difficile, extra set of samples Specimens: 2 lyophilized mixtures of bacteria Notes: Only in connection with scheme 5200

Clostridium difficile, nucleic acid detection Specimens: 2 lyophilized mixtures of bacteria. Hypervirulent C. difficile

Notes: 5200 includes also this examination

strains also included.

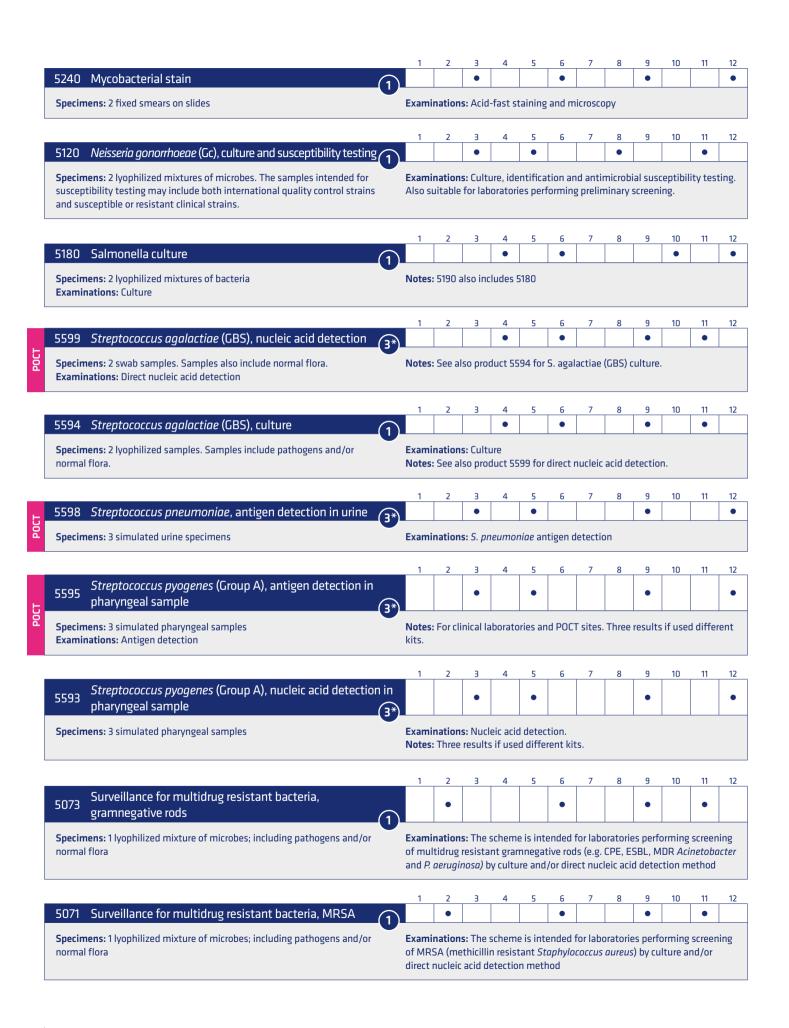
Faecal bacterial pathogens multiplex, nucleic acid detection

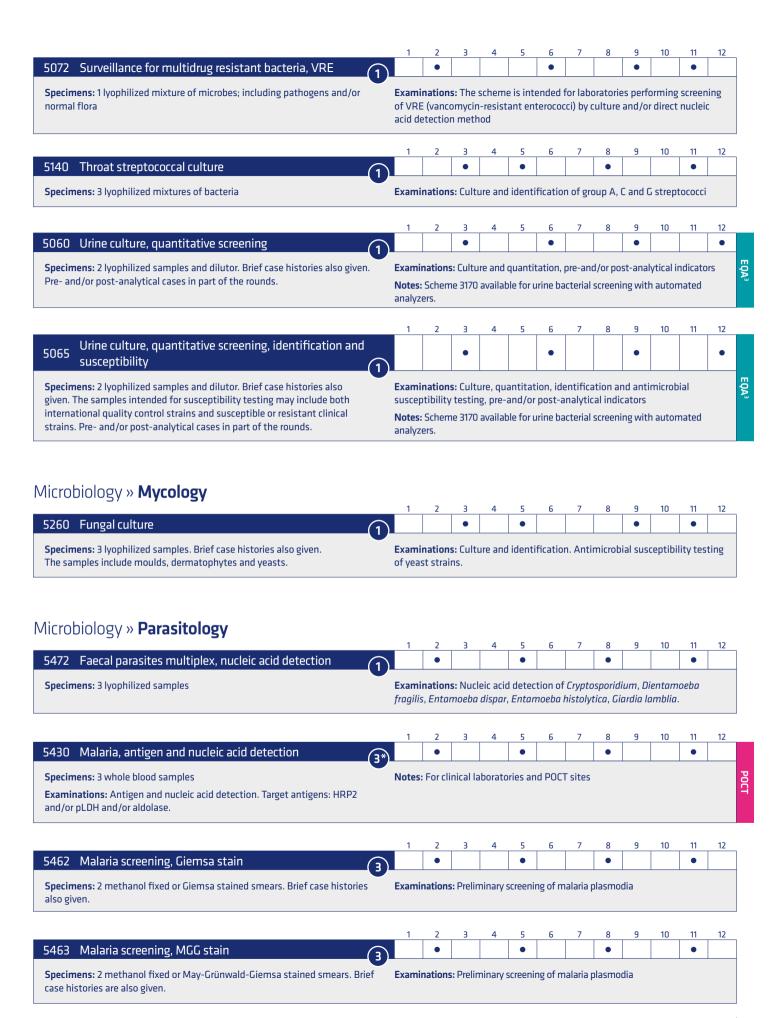
Specimens: 3 samples. Either lyophilized mixtures of bacteria and/or simulated samples, 1 mL.

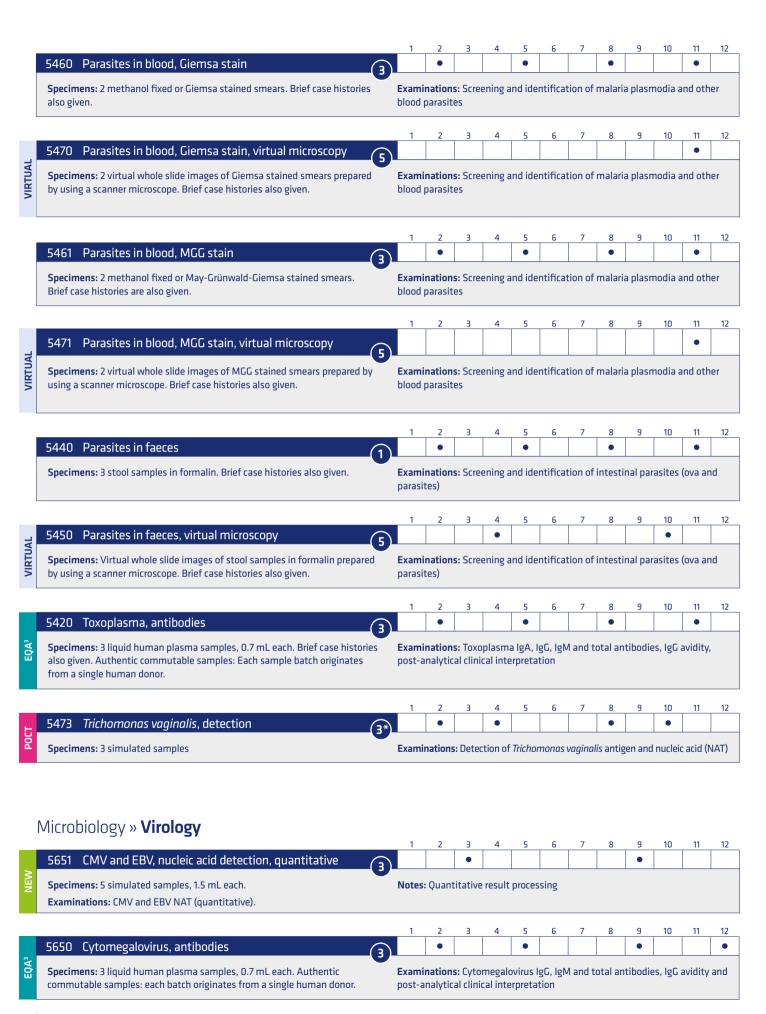
Examinations: Direct nucleic acid detection. Pathogens included are Aeromonas, Campylobacter, E. coli EHEC (stx1/stx2), E. coli EAEC, E. coli EIEC, E. coli EPEC, E. coli ETEC, Plesiomonas, Salmonella, Shigella and Yersinia.

Notes: During the period of one calendar year, a comprehensive selection of listed pathogens will be covered.

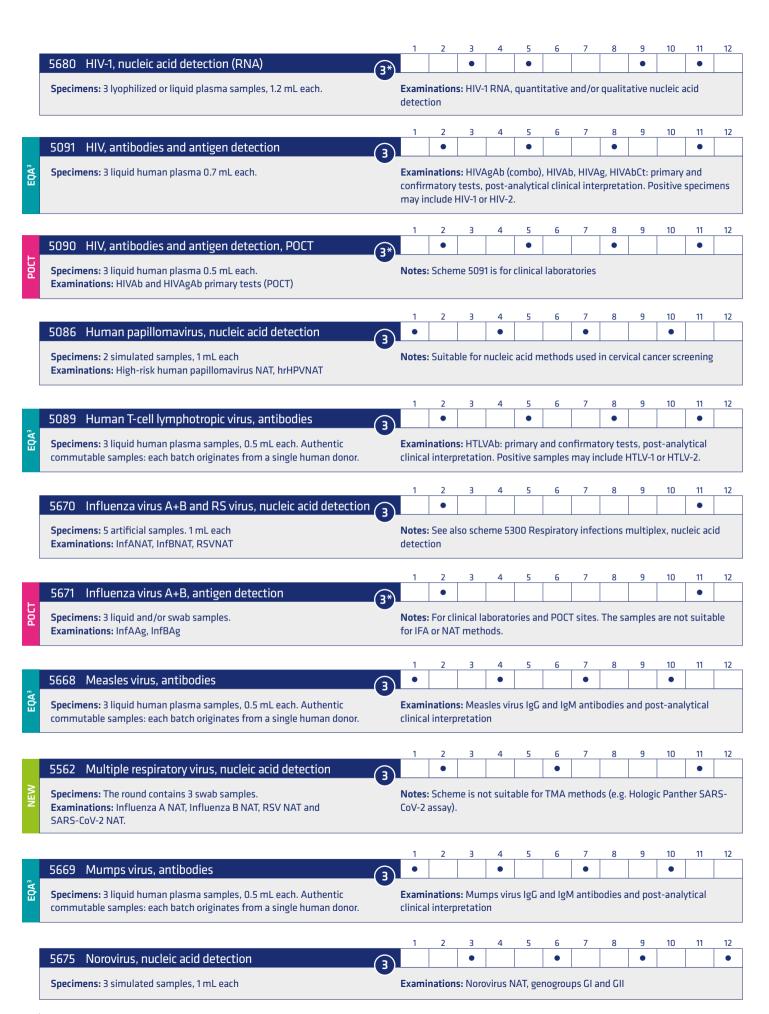


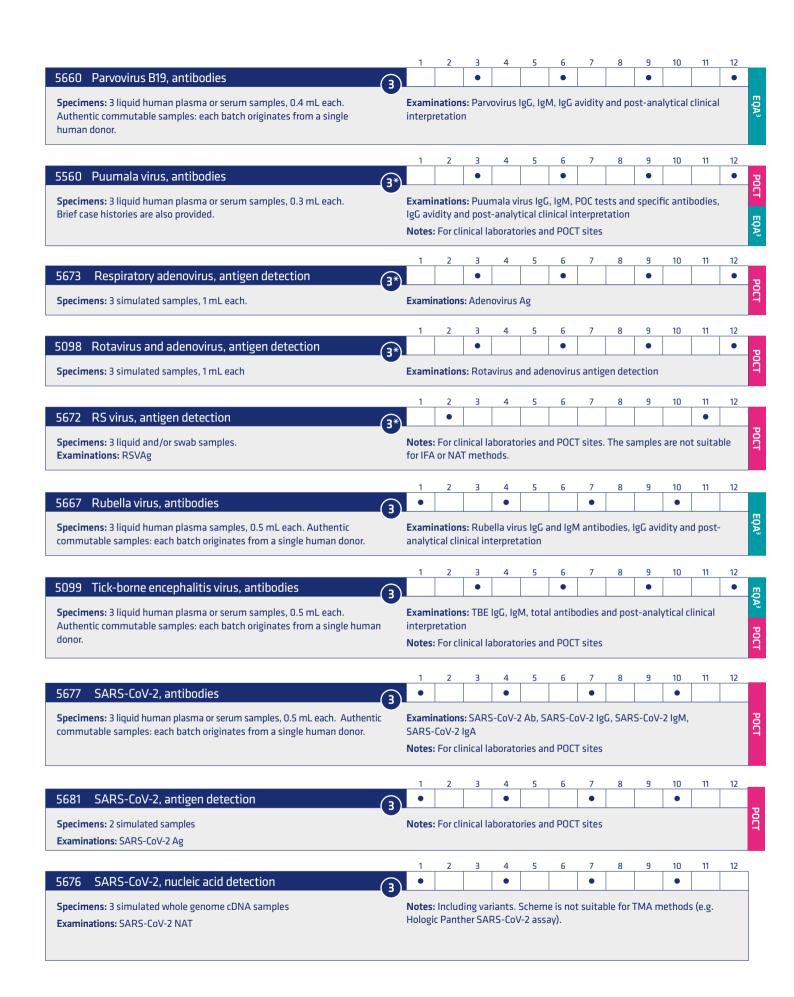












EQA schemes including Antimicrobial Susceptibility Testing

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 culture for multidrug resistant bacteria, gramnegative rods

5071 Surveillance culture for multidrug resistant bacteria, MRSA

5072 Surveillance culture 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 Clostridium 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 culture for multidrug resistant bacteria, MRSA

5072 Surveillance culture for multidrug resistant bacteria, VRE

5073 Surveillance culture for multidrug resistant bacteria, gramnegative rods

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

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

5675 Norovirus, nucleic acid detection

5676 SARS-CoV-2, nucleic acid detection

5560 Multiple Respiratory Virus, nucleic acid detection

Multiplex

are C. trachomatis, M. genitalium, M. hominis, N. gonorrhoeae, T. vaginalis,

U. parvum and U. urealyticum.

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.

Faecal bacterial pathogens multiplex, nucleic acid detection, Specimens: 3 samples. Either lyophilized mixtures of bacteria and/or Notes: During the period of one calendar year, a comprehensive selection of listed pathogens will be covered. simulated samples, 1 mL. Examinations: Direct nucleic acid detection. Pathogens included are Aeromonas, Campylobacter, E. coli EHEC (stx1/stx2), E. coli EAEC, E. coli EIEC, E. coli EPEC, E. coli ETEC, Plesiomonas, Salmonella, Shigella and Yersinia. 5472 Faecal parasites multiplex, nucleic acid detection Specimens: 3 lyophilized samples Examinations: Nucleic acid detection of Cryptosporidium, Dientamoeba fragilis, Entamoeba dispar, Entamoeba histolytica, Giardia lamblia. Gastrointestinal viral multiplex, nucleic acid detection Specimens: 3 simulated samples, 1 mL each. Notes: During the period of one calendar year, a comprehensive selection of listed pathogens will be covered. Examinations: Direct multiplex nucleic acid detection. Pathogens included are: Adenovirus, Astrovirus, Norovirus, Rotavirus, Sapovirus. 12 Meningitis-encephalitis multiplex, nucleic acid detection, Specimens: 3 simulated samples, 1 mL each. simplex virus 1 (HSV1), Herpes simplex virus 2 (HSV2), Human herpesvirus 6 (HHV6), Human parechovirus (HPeV), Varizella zoster virus (VZV) and Examinations: Direct multiplex nucleic acid detection. Pathogens included Cryptococcus neoformans. are: Escherichia coli K1, Haemophilus influenzae, Listeria monocytogenes, Neisseria meningitidis, Streptococcus agalactiae, Streptococcus pneumoniae, Notes: During the period of one calendar year, a comprehensive selection of Cytomegalovirus (CMV), Enterovirus, Epstein-Barr virus (EBV), Herpes listed pathogens will be covered. 5300 Respiratory infections multiplex, nucleic acid detection Specimens: 4 simulated samples, 1 mL each influenzavirus A/B, metapneumovirus, M. pneumoniae, parainfluenzavirus 1-4, rhinovirus, RSV A/B, SARS-CoV-2 and S. pneumoniae. **Examinations:** Examinations: Direct multiplex nucleic acid detection. Notes: During the period of one calendar year, a comprehensive selection of Pathogens included are adenovirus, B. parapertussis, B. pertussis, C. pneumoniae, coronavirus (OC43, 229E, NL63, HKU1), enterovirus, listed pathogens will be covered. Sexually transmitted diseases multiplex, 5302 nucleic acid detection Specimens: 4 simulated swab/urine samples (à 2 mL) Notes: During the period of one calendar year, a comprehensive selection of listed pathogens will be covered. Examinations: Direct multiplex nucleic acid detection. Pathogens included

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 microscopy 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. 12 6700 Gynaecological cytology (smear), virtual microscopy 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 6542 Histopathology, virtual microscopy Topics 2022: 1/2022 Gynaecological histopathology 2/2022 Liver Brief case histories and instructions are provided. histopathology **Examinations:** Observations and diagnoses Specimens: Virtual images of at least 5 slides of miscellaneous tissue. Notes: Topics may vary annually Non-gynaecological cytology, virtual microscopy 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** 6543 Histological staining techniques Topics 2022: 1,2022: Papa and Weigert Van Gieson/ Herovici 2,2022: Kongo Examinations: Staining of the slides. A set of stained slides is returned to and Jones Labquality for evaluation by an expert board. Specimens: Unstained paraffin sections or smears Notes: Stains vary annually 6600, 6600S Immunohistochemical staining methods Topics 2022: 1/2022 Lymphoma: Cyclin D1, CD79a, CD10, CD4 and CD8 Examinations: Staining of the slides. A set of stained slides is returned to 2/2022 Breast cancer: PR, HER2, ER, Ki-67 and HER2 -ISH* Labquality for evaluation by an expert board. *) also double stain accepted, but no FISH 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 round (6600S

for 3 antibodies, 6600 for 5).

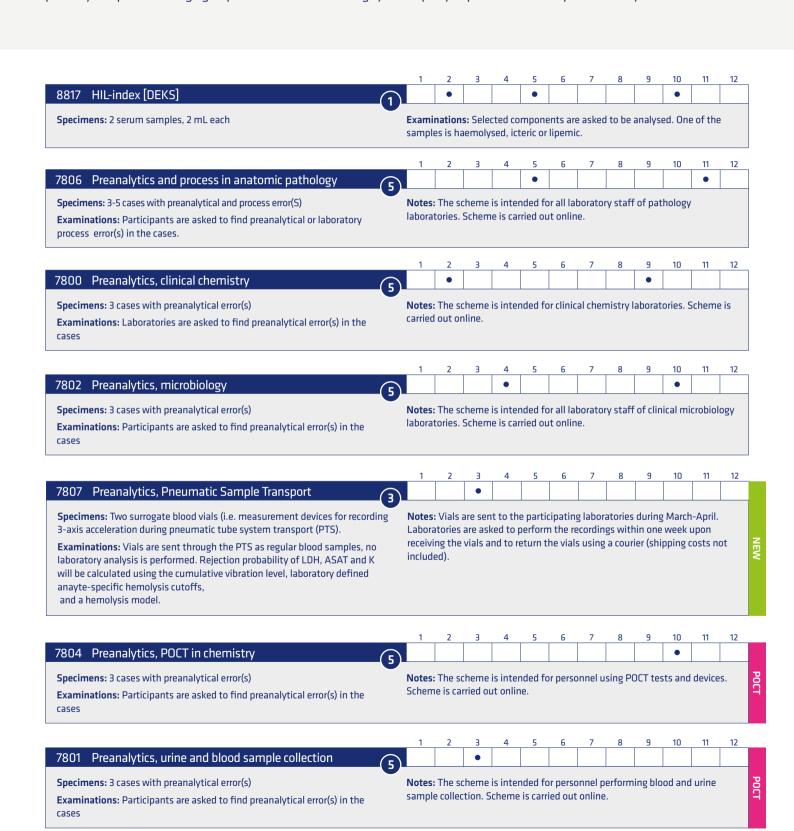
or from one multiblock

3.2022 Abdominal tumour CK7, WT1, CK20, CDX2 and PSA

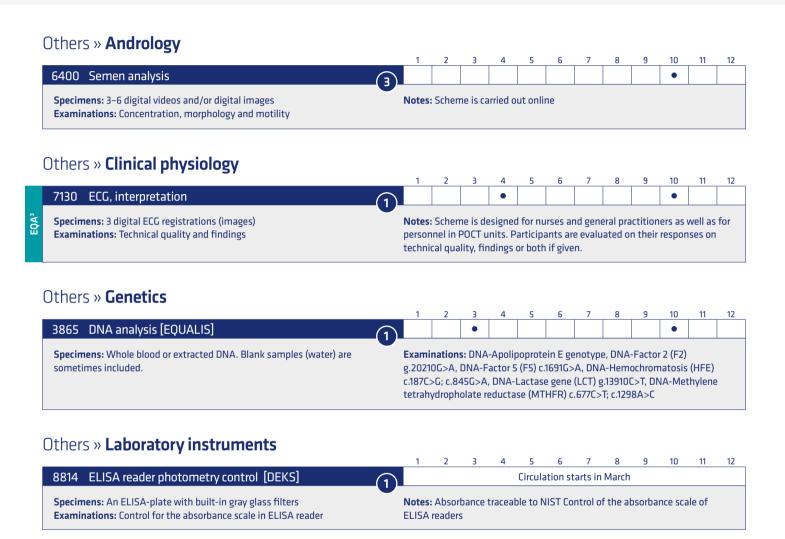
Specimens: Unstained paraffin embedded tissue from different tissue blocks

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.



Others



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

8817 HIL-index [DEKS]

7806 Preanalytics and process in anatomic pathology

7800 Preanalytics, clinical chemistry

7802 Preanalytics, microbiology

7807 Preanalytics, Pneumatic sample transport

7804 Preanalytics, POCT in chemistry

7801 Preanalytics, urine and blood sample collection

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, 23015 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

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 detection

5089 Human T-cell lymphotropic virus, antibodies

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, antibodi

5636 Zika virus, antibodies

Alphabetical scheme directory

5-hydroxyindoleacetic Acid (5-HIAA), 11 C Cerebrospinal fluid, bacterial culture, 22 Chlamydia pneumoniae, antibodies, 21 ABO and Rh grouping, 16 Chlamydia trachomatis and Neisseria gonorrhoeae. Acid-base status and electrolytes, 10 nucleic acid detection, 22 Activated partial tromboplastin time, INR and fibrinogen, 17 Chromogranin A (Noklus), 10 Albumin and creatinine in urine, 13 Clostridium difficile, culture and toxin detection, 22 Alcohol in whole blood: Ethanol + methanol + isopropanol, 10 Clostridium difficile, nucleic acid detection, 22 Alcohol in whole blood: Ethylene glycol, 10 CMV and EBV, nucleic acid detection, quantitative, 26 Alcohol in serum: Ethanol + methanol + isopropanol + acetone, 10 Coeliac disease, antibodies, 20 Alcohol in serum: Ethylene glycol, 10 Column agglutination methods: grading of reactions and patient cases, 16 Allergen component [UK NEQAS], 6 C-reactive protein (CRP) for analyzers, 12 Allergy in vitro diagnostics [SKML], 6 C-reactive protein (CRP), POCT, 12 Allergy in vitro diagnostics [UK NEQAS], 6 CRP. low concentration. 7 Ammonium ion, 10 Cystatin C [DEKS], 10 ANCA and GbmAb, 20 Cytomegalovirus, antibodies, 26 Angiotensin convertase (ACE), 10 Antibody screening and compatibility testing, 16 D Anticoagulants: LMW-Heparin/antiFXa, 17 DayTrol, human serum, 9 Antiglobulin test, direct, 16 D-dimer. 17 Anti-Müllerian hormone, 13 Decialotransferrin [EOUALIS]. 12 Antinuclear antibodies, 20 Dengue virus, antibodies and antigen detection, 27 Antistreptolysin, 21 DNA analysis [EQUALIS], 34 Autoimmune diagnostics, IFA interpretation (digital images),20 Drug of abuse screening in urine, 13 Autoimmune liver disease and gastric parietal cell antibodies, 20 E В EBV mononucleosis, POCT, 27 Bacteriological staining, direct (digital images), 22 EBV mononucleosis, specific antibodies, 27 Basic blood count, 1-level sample, 16 Basic blood count, 2-level sample, 16 ECG, interpretation, 34 ELISA reader photometry control [DEKS], 34 Basic chemistry, POCT analyzers, 6 Eosinophil cationic protein, 6 Bile acids. 10 Erythrocyte sedimentation rate, 6 Bilirubin, conjugated, 10 Erythrocyte sedimentation rate: Alifax-analyzers; Greiner tube, 7 Bilirubin, neonatal, 10 Erythrocyte sedimentation rate: Alifax-analyzers; Sarstedt tube, 7 Blood culture, 22 Erythrocyte sedimentation rate: iSED, 7 Blood culture, screening, 22 Bordetella pertussis, antibodies, 21 Borrelia burgdorferi, antibodies, European origin, 21 Faecal bacterial pathogens multiplex, nucleic acid detection, 22, 31 Brucella, antibodies, 21 Faecal calprotectin, 12 Faecal culture. 23 Faecal occult blood, qualitative, 7 Faecal occult blood, quantitative, 7 Faecal parasites multiplex, nucleic acid detection, 25, 31 Flagger program (Noklus), 15 Francisella tularensis, antibodies, 21 Fungal culture, 25

Alphabetical scheme directory

G	T.								
Gastric biomarkers, 11	Immunohistochemical staining methods, 32								
Gastrointestinal viral multiplex, nucleic acid detection, 31	Influenza virus A+B and RS virus, nucleic acid detection, 28								
General Bacteriology 1 (aerobes and anaerobes), 23	Influenza virus A+B, antigen detection, 28								
General Bacteriology 2 (aerobes), 23	INR, CoaguChek, i-STAT and Siemens Xprecia, POCT, 17								
Glucose meters, 8	INR, EuroLyzer, POCT, 18								
Gram stain, blood culture, 23	INR, LabPad, POCT, 18								
Gram stain, colonies, 23	INR, MicroINR, LumiraDX and CoagSense, POCT, 18								
Gynaecological cytology (liquid based), virtual microscopy, 32	Interleukin-6, 12								
Gynaecological cytology (smear), virtual microscopy, 32									
	K								
Н	Ketones (beta-hydroxybutyrate), POCT, 8								
Haemoglobin A1c, liquid samples, 8									
Haemoglobin A1c, liquid samples, POCT, 8	L								
Haemoglobin, 1-level, POCT, 7	Legionella, antigen detection in urine, 23								
Haemoglobin, 3-level samples, cell counters and analyzers, 7	Leucocyte differential count and evaluation of blood cell								
Haemoglobin, 3-level samples, POCT, 7	morphology, virtual microscopy, 16								
Haemoxymeters, 11	Leucocyte differential count, 3-part, automated, 16								
Helicobacter pylori, antibodies, 21	Leucocyte differential count, 5-part, automated, 17								
Helicobacter pylori, antigen detection in faeces, 23	Lipids and lipoproteins, 12								
Hepatitis A, antibodies, 27	Lipoprotein a, 12								
Hepatitis B and C, serology, specimen volume 0.6 mL / 1.2 mL / 2.0 mL, 27	М								
Hepatitis B, s-antigen antibodies, quantitative, 27	Malaria, antigen and nucleic acid detection, 25								
Hepatitis B virus, nucleic acid detection (DNA), 27	Malaria screening, Giemsa stain, 25								
Hepatitis C virus, nucleic acid detection (RNA), 27	Malaria screening, MGG stain, 25								
Hepatitis E, antibodies, 27	Measles virus, antibodies, 28								
Herpes simplex 1 and 2, antibodies, 27	Meningitis-encephalitis multiplex, nucleic acid detection, 31								
HIL-index [DEKS], 33	Methyl malonate [DEKS], 11								
Histological staining techniques, 32	Multiple Respiratory Virus nucleic acid detection, 28								
Histopathology, virtual microscopy, 32	Mumps virus, antibodies, 28								
HIV-1, nucleic acid detection (RNA), 28	Mycobacterial culture and stain, 23								
HIV, antibodies and antigen detection, 28	Mycobacterial nucleic acid detection, 23								
HIV, antibodies and antigen detection, POCT, 28	Mycobacterial stain, 24								
Homocysteine [DEKS], 11	Mycoplasma pneumoniae, antibodies, 21								
Hormones A: Basic analytes of hormone and immunochemistry, 8	Myocardial markers, 7 Myocardial markers and CRP, low concentration, 8								
Hormones B: Steroid and peptide hormones, 9	· · · · · · · · · · · · · · · · · · ·								
Human papillomavirus, nucleic acid detection, 28	N								
Human T-cell lymphotropic virus, antibodies, 28	Nasal swab cells, 11								
	Natriuretic peptides 1, B-type, NT-ProBNP, 8								
	Natriuretic peptides 2, B-type, BNP, 8								
	Neisseria gonorrhoeae (Gc), culture and susceptibility testing, 24								
	Non-gynaecological cytology, virtual microscopy, 32								
	Norovirus, nucleic acid detection, 28								

Alphabetical scheme directory

Sputum cells, 11 Streptococcus agalactiae (GBS), nucleic acid detection, 24 Parasites in blood, Giemsa stain, 26 Streptococcus agalactiae (GBS), culture, 24 Parasites in blood, Giemsa stain, virtual microscopy, 26 Streptococcus pneumoniae, antigen detection in urine, 24 Parasites in blood, MGG stain, 26 Streptococcus pyogenes (Group A), antigen detection in pharyngeal Parasites in blood, MGG stain, virtual microscopy, 26 sample, 24 Parasites in faeces, 26 Streptococcus pyogenes (Group A), nucleic acid detection in pharyngeal Parasites in faeces, virtual microscopy, 26 sample, 24 Parathyroid hormone, intact, 9 Surveillance for multidrug resistant bacteria, gramnegative rods, 24 Parvovirus B19, antibodies, 29 Surveillance for multidrug resistant bacteria, MRSA, 24 Percentiler program (Noklus), 15 Surveillance for multidrug resistant bacteria, VRE, 25 Phospholipid antibodies. 20 Synovial fluid crystals, 11 Preanalytics and process in anatomic pathology, 32, 33 Syphilis serology, 21 Preanalytics, clinical chemistry, 33 Preanalytics, microbiology, 33 т Preanalytics, Pneumatic Sample Transport, 33 Therapeutic drugs, 11 Preanalytics, POCT in chemistry, 33 Throat streptococcal culture, 25 Preanalytics, urine and blood sample collection, 33 Thyroid gland antibodies, 20 Pregnancy test, 13 Tick-borne encephalitis virus, antibodies, 29 Procalcitonin, 12 Toxoplasma, antibodies, 26 Prostate specific antigen, 13 Trichomonas vaginalis, detection, 26 Proteins in cerebrospinal fluid, 12 Troponin I and Troponin T, detection, POCT, 8 Proteins, electrophoresis, 12 Tryptase [UK NEQAS], 6 Proteins, immunochemical determinations, 12 TSH receptor antibodies, 20 Prothrombin time, 18 Tumour markers. 13 Puumala virus, antibodies, 29 U R Urine bacterial screening with automated analyzers, 13 Respiratory adenovirus, antigen detection, 29 Urine culture, quantitative screening, 25 Respiratory infections multiplex, nucleic acid detection, 31 Urine culture, quantitative screening, identification Reticulocyte count, automated, 17 and susceptibility, 25 Reticulocyte count, manual methods, 17 Urine, identification of cells and other particles (digital images), 13 Rheumatoid factor and citrullic peptide antibodies, 20 Urine quantitative chemistry, 14 Rotavirus and adenovirus, antigen detection, 29 Urine strip test A, 14 RS virus, antigen detection, 29 Urine strip test B, particle count and estimation of density, 14 Rubella virus, antibodies, 29 S Varicella-zoster virus, antibodies, 30 Salmonella, culture, 24 Vitamin A, E and D metabolites, 11 SARS-CoV-2, antibodies, 29 W SARS-CoV-2, antigen detection, 29 SARS-CoV-2, nucleic acid detection, 29 White blood cell count, HemoCue, POCT, 17 Semen analysis, 34 White blood cell differential count: HemoCue, POCT, 17 Serum A, lyophilized samples, 9 Z Serum B and C (2-level), 9 Sexually transmitted diseases multiplex, nucleic acid detection, 31 Zika virus, antibodies, 30 Special coagulation, 18



10-11 FEBRUARY, 2022 HELSINKI, FINLAND

LABQUALITY DAYS

International Congress on Quality in Laboratory Medicine

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 2022.

Labquality Days will celebrate the 50+ years of Labquality as a provider of external quality assessments. The main theme for 2022 congress is "Forerunner in Quality for 50+ Years". The sub-themes consist of Past and Future of EQA and QC & Regulation and Quality Systems in Laboratory Medicine.

Come and enjoy the stimulating scientific atmosphere and spend a few days in Helsinki, the beautiful capital of Finland.

More information at www.labqualitydays.com.

Under the auspices of





LABQUALITY

Sales and customer service

Tel. +358 9 8566 8200 | Fax +358 9 8566 8280 info@labquality.fi | www.labquality.fi/en Kumpulantie 15, Fl-00520 Helsinki, Finland VAT Fl01100791