

Q EQAS

EQA

Product catalogue

2016

LABQUALITY

■ Tel. +358 9 8566 8200 ■ Fax +358 9 8566 8280
■ www.labquality.fi ■ info@labquality.fi



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New products and schemes for 2016

Please find below the new EQA schemes for 2016.
A complete list of all updates can be found on page 29.

Microbiology

- 5201 *Clostridium difficile*, nucleic acid detection (page 19) – **New**
- 5191 Faecal bacterial pathogens, nucleic acid detection (page 19) – **New**
- 5221 Mycobacterial nucleic acid detection (page 20) – **New**

Pathology

- 6701 Gynaecological cytology (liquid based), virtual microscopy (page 26) – **New**
- 6702 Non-gynaecological cytology, virtual microscopy (page 26) – **New**

How to use the catalogue

Scheme code and name		Rounds (delivery months)											
		1	2	3	4	5	6	7	8	9	10	11	12
POCT	1234 Scheme name	■				■				■		■	
	Specimens: Examinations:	Notes:											

Additional info
 NEW = New product
 POCT = Suitable for Point-of-Care testing units
 VIRTUAL = Virtual microscopy

Ordering information

Availability: Please check the availability of the schemes from Labquality's customer service or local partner. Schemes marked with an asterisk in the price list are available only via local representative.

Orders: To ensure your participation for all the rounds, order 2016 schemes before the end of November 2015. More information: www.labquality.fi, info@labquality.fi, +358 9 8566 8200.

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

	1	2	3	4	5	6	7	8	9	10	11	12
2670 Allergy in vitro diagnostics [UKNEQAS]		■		■		■		■		■	■	
Specimens: 2 human serum samples for specific IgE with 4 allergens in each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL Examinations: Total IgE and specific IgEs	Notes: Participation is not possible for less than 6 rounds in a year. Should be ordered by November 13th, 2015 .											
2681 Allergy in vitro diagnostics [SKML]		■			■			■			■	
Specimens: 3 human serum samples for specific IgE with 3 allergens, 2 mixes and total IgE in each, 0.5 mL each Examinations: Total IgE, specific IgEs and allergen mixes	Notes: Participation is not possible for less than 4 rounds in a year. Should be ordered by the end of November 2015. All samples are distributed in February.											
2680 Eosinophil cationic protein		■		■		■		■		■	■	
Specimens: 1 lyophilized serum sample, 0.3 mL Examinations: ECP	Notes: Results are processed in connection with total IgE results of scheme 2670.											

Clinical chemistry » Basic chemistry

	1	2	3	4	5	6	7	8	9	10	11	12
2100 Basic chemistry, POCT analyzers		■			■			■			■	
Specimens: 2 human serum samples, 1 mL each 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 Notes: For both clinical laboratories and POCT units. Only for dry chemistry analyzers.											
2730 Erythrocyte sedimentation rate			■		■				■		■	
Specimens: 1 artificial blood cell suspension, 4.5 mL	Examinations: ESR											
2731 Erythrocyte sedimentation rate: Alifax; Greiner tube			■		■				■		■	
Specimens: 3 test tubes containing synthetic latex solution, 3 mL each	Examinations: ESR											
2732 Erythrocyte sedimentation rate: Alifax; Sarstedt tube			■		■				■		■	
Specimens: 3 test tubes containing synthetic latex solution, 3 mL each	Examinations: ESR											

		1	2	3	4	5	6	7	8	9	10	11	12
POCT	2750 Faecal occult blood	■				■				■		■	
	Specimens: 2 preparations that include human haemoglobin, ≥ 0.5 mL each Examinations: Detection of haemoglobin	Notes: For clinical laboratories and POCT units											

		1	2	3	4	5	6	7	8	9	10	11	12
POCT	2114 Haemoglobin, 1-level, POCT			■		■				■		■	
	Specimens: 1 bovine hemolysate or human whole blood control sample, 1 mL Examinations: Haemoglobin	Notes: Only for POCT devices											

		1	2	3	4	5	6	7	8	9	10	11	12
	2113 Haemoglobin, 3-level samples, cell counters and analyzers									■			
	Specimens: 3 human whole blood control samples, 1 mL each (low, medium and high concentration)	Examinations: Haemoglobin linearity with three samples. Reference values will be provided in the summary report.											
		Notes: For cell counters and analyzers											

		1	2	3	4	5	6	7	8	9	10	11	12
POCT	2112 Haemoglobin, 3-level samples, POCT									■			
	Specimens: 3 bovine or human samples, 1 mL each (low, medium and high concentration)	Examinations: Haemoglobin linearity with three samples											
		Notes: Only for POCT devices											

Clinical chemistry » Cardiac markers

		1	2	3	4	5	6	7	8	9	10	11	12
	2540 Myocardial markers		■		■		■			■		■	
	Specimens: 2 human serum samples, 0.5–1 mL each Examinations: CK MB mass, myoglobin, quantitative troponin I, quantitative troponin T	Notes: CK and LD are not included as examinations in year 2016. See also scheme 2530 Troponin I and T, detection for POCT.											

		1	2	3	4	5	6	7	8	9	10	11	12
	2541 Myocardial markers and CRP, low concentration		■		■		■			■		■	
	Specimens: 2 human samples for myocardial markers, 0.5–1 mL each and 1 for CRP, 1 mL Examinations: CK MB mass, myoglobin, quantitative troponin I, quantitative troponin T and CRP, low concentration	Notes: CK and LD are no longer included as examinations in year 2015. See also scheme 2530 Troponin I and T, detection for POCT.											

		1	2	3	4	5	6	7	8	9	10	11	12
POCT	2690 Natriuretic peptides 1, B-type, NT-ProBNP	■			■			■			■		
	Specimens: 2 lyophilized or liquid samples, 1–2 mL each Examinations: NT-ProBNP	Notes: Suits both clinical laboratories and POCT units. Also suitable for Roche Cardiac Reader and Cobas h232.											

		1	2	3	4	5	6	7	8	9	10	11	12
POCT	2691 Natriuretic peptides 2, B-type, BNP	■			■			■			■		
	Specimens: 2 lyophilized or liquid samples, 1–2 mL each Examinations: BNP	Notes: Suits both clinical laboratories and POCT units											

		1	2	3	4	5	6	7	8	9	10	11	12
POCT	2530 Troponin I and Troponin T, detection, POCT		■		■		■			■		■	
	Specimens: 2 fresh human samples, 0.5 mL each Examinations: Detection of troponin I and troponin T	Notes: Qualitative, semi-quantitative and quantitative results are processed. This scheme is only for POCT, scheme 2540 is for analyzers.											

Clinical chemistry » Diabetes analysis

	1	2	3	4	5	6	7	8	9	10	11	12	
2570, 2580, 2590 Glucose meters 1, 2 and 3		■			■				■		■		POCT
Device specific product codes: 2570 for all glucose meters except Contour, HemoCue and On Call Plus 2580 for HemoCue meters 2590 for Contour meters Specimens: 1 whole blood or serum sample	Examinations: Glucose Notes: Both for clinical laboratories and POCT units. Observe device specific product codes. 5 results processed with one order.												
1261 Haemoglobin A1c, liquid samples		■		■		■		■		■		■	
Specimens: 2 liquid blood samples, 0.5 mL ea Examinations: HbA1c	Notes: Result processing in IFCC and DCCT units. Not suitable for Afinion instruments.												
1263 Haemoglobin A1c, liquid samples, POCT				■		■				■		■	POCT
Specimens: 2 liquid blood samples, 0.5 mL each Examinations: HbA1c	Notes: Result processing in IFCC and DCCT units. Only for POCT devices. Not suitable for Afinion.												

Clinical chemistry » Endocrinology

	1	2	3	4	5	6	7	8	9	10	11	12	
2221 Down's syndrome screening, quality assurance			■										
Specimens: No sample analysis involved	Examinations: Patient results are collected from risk management software (e.g. LifeCycle, Prisca) anonymously for data analysis												
2300, 2300S Hormones A: Basic analytes of hormone and immunochemistry		■		■	■	■		■		■	■	■	
Specimens: 2 human serum samples with differing concentrations, 3 mL each. Liquid serum sample (one level) included in Apr and Oct rounds. Examinations: Digoxin, ferritin, folate, hCG (total, intact), T3, free T3, T4, free T4, TSH, vitamin B12, active vitamin B-12	Notes: 2300S is a limited version of the scheme available for laboratories performing testing of 1-5 analytes. For additional set of samples, order scheme 1300.												
1300 Hormones A, extra set of samples		■		■	■	■		■		■	■	■	
Specimens: 2 human serum samples, 3 mL each	Notes: Only in connection with scheme 2300												
2301, 2301S Hormones B: Steroid and peptide hormones		■		■		■		■		■		■	
Specimens: 2 human serum samples with differing concentrations, 3 mL each. Liquid serum sample (one level) included in Apr, Aug and Dec rounds. Examinations: Androstenedione, aldosterone, C-peptide, cortisol, DHEAS, estradiol, FSH, gastrin, growth hormone, IGF-1, insulin, LH, progesterone,	17-OH-progesterone, prolactin, SHBG, testosterone, free testosterone, TBG Notes: Reference values for 1 analyte in liquid serum will be provided. 2301S is a limited version of the scheme available for laboratories performing testing of 1-5 analytes. For additional set of samples, order scheme 1301.												
1301 Hormones B, extra set of samples		■		■		■		■		■		■	
Specimens: 2 human serum samples, 3 mL each	Notes: Only in connection with scheme 2301												
2250 Parathyroid hormone			■							■			
Specimens: 2 lyophilized human serum samples, 1 mL each	Examinations: PTH												

Clinical chemistry » General long-term clinical chemistry

	1	2	3	4	5	6	7	8	9	10	11	12
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, gamma-glutamyltransferase, glucose, iron, lactate, lactate dehydrogenase,		lithium, magnesium, osmolality, phosphorus, potassium, protein, sodium, thyreotropin, thyroxine, thyroxine free, transferrin, transferrin receptor, triglycerides, urea, uric acid										
		Notes: Minimum order quantity of 10 bottles per year. Monthly processing of results included.										

Clinical chemistry » General short-term clinical chemistry

	1	2	3	4	5	6	7	8	9	10	11	12
2040 Bilirubin, neonatal	■	■	■	■	■	■	■	■	■	■	■	■
Specimens: 1 lyophilized sample, 1–3 mL												
Examinations: Bil, neo		Notes: Samples for multiple rounds shipped simultaneously. Monthly processing of results included.										

	1	2	3	4	5	6	7	8	9	10	11	12
2020 C-reactive protein	■	■	■	■	■	■	■	■	■	■	■	■
Specimens: 1 liquid serum sample, 1–3 mL												
Examinations: CRP		Notes: Samples for multiple rounds shipped simultaneously. Monthly processing of results included.										

	1	2	3	4	5	6	7	8	9	10	11	12
1002 Haemoglobin	■	■	■	■	■	■	■	■	■	■	■	■
Specimens: 1 hemolyzed sample, 1 mL												
Examinations: Haemoglobin		Notes: Samples for multiple rounds shipped simultaneously. Monthly processing of results included.										

	1	2	3	4	5	6	7	8	9	10	11	12
1072, 1072S Serum A	■	■	■	■	■	■	■	■	■	■	■	■
Specimens: Liquid or lyophilized serum sample, 3–5 mL each, samples are selected to cover a wide concentration range												
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, copper, cortisol, creatine phosphokinase, creatinine, ferritin, gamma-glutamyltransferase, glucose, haptoglobin, IgA, IgE, IgG, IgM,		iron, lactate, lactate dehydrogenase, lithium, magnesium, oroso-mucoid, osmolality, phosphorus, potassium, protein, selenium, sodium, thyreotropin, thyroxine, thyroxine free, TIBC, transferrin, transferrin receptor, triglycerides, tri-iodio-thyronine, urea, uric acid, zinc										
		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.										

	1	2	3	4	5	6	7	8	9	10	11	12
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

	1	2	3	4	5	6	7	8	9	10	11	12
2610 Acid-base status and electrolytes		■		■				■			■	
Specimens: 3 buffered artificial samples, 2.5 mL each												
Examinations: Chloride, creatinine, glucose, ionized calcium, ionized magnesium, lactate, pCO ₂ , pH, pO ₂ , potassium, sodium, urea		Notes: Order own sample set for each analyzer. The scheme suits both clinical laboratories and POCT units.										

POCT

2510 Alcohol in blood: Ethanol + methanol + isopropanol	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: Ethanol: 2-level whole blood samples. Methanol and isopropanol: 1-level whole blood samples.	Examinations: Ethanol, methanol, isopropanol											
2516 Alcohol in blood: Ethylene glycol in whole blood	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 1-level whole blood samples	Examinations: Ethylene glycol											
2511 Alcohol in serum: Ethanol + methanol + isopropanol	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: Ethanol: 2-level serum samples. Methanol and isopropanol: 1-level serum samples.	Examinations: Ethanol, methanol, isopropanol											
2517 Alcohol in serum: Ethylene glycol in serum	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 1-level serum samples	Examinations: Ethylene glycol											
2105 Ammonium ion	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 serum based or buffered samples	Examinations: Ammonium ion											
2210 Angiotensin convertase (ACE)	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 1 liquid and 1 lyophilized human serum sample, 1 mL each	Examinations: ACE											
2520 Bile acids	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 pooled human serum samples, 0.5 mL each	Examinations: Bile acids											
2109 Bilirubin, conjugated	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 lyophilized or liquid samples	Examinations: Total bilirubin, conjugated bilirubin											
8702 Chromogranin A [NKK]	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 3 genuine human serum samples	Examinations: 1 time											
8805 Cystatin C [DEKS]	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 human plasma samples with reference target values, 0.75 mL each	Examinations: P-Cystatin C Notes: Participation is not possible for less than 2 rounds a year											
2370 Folate, erythrocytes	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 1 human whole blood sample, 1 mL each Examinations: Blood folate and erythrocyte folate	Notes: Scheme is delivered only to Nordic countries											
2150 Haemoxymeters	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 lyophilized samples prepared from bovine haemoglobin solution, 0.5 mL each	Examinations: FO2Hb, FCOHb, FMETHb, ctHb, sO2 Notes: Order own sample set for each analyzer											

	1	2	3	4	5	6	7	8	9	10	11	12
8816 Homocysteine [DEKS]	5 times											
Specimens: 2 human plasma or serum samples Examinations: P-Homocysteine	Notes: Participation is not possible for less than 5 rounds in a year											

	1	2	3	4	5	6	7	8	9	10	11	12
8815 Methyl malonate [DEKS]	5 times											
Specimens: 2 human serum samples Examinations: P-Methyl-malonate	Notes: Participation is not possible for less than 5 rounds in a year											

	1	2	3	4	5	6	7	8	9	10	11	12
2651 Nasal swab cells												■
Specimens: 4 digital images of MGG and methylene eosin stained samples	Examinations: Eosinophils, neutrophils											

	1	2	3	4	5	6	7	8	9	10	11	12
2652 Sputum cells												■
Specimens: 4 digital images of MGG and methylene eosin stained samples	Examinations: Eosinophils, neutrophils											

	1	2	3	4	5	6	7	8	9	10	11	12
2640 Synovial fluid crystals					■							
Specimens: 3 slides prepared from patient samples	Examinations: Sodium urate monohydrate and calcium pyrophosphate dihydrate crystals											

	1	2	3	4	5	6	7	8	9	10	11	12
2410 Therapeutic drugs			■		■			■				■
Specimens: 2 human serum samples, volume 5 mL each Examinations: Amikasin, amitriptyline, carbamazepine, carbamazepine free, cyclosporine, digoxin, disopyramide, ethosuximide, flecainide, gentamycin, lidocaine, lithium, methotrexate, NAPA, netilmycin, nortriptyline,	paracetamol (acetaminophen), phenobarbital, phenytoin, phenytoin free, primidone, procainamide, quinidine, salicylate, theophylline, tobramycin, tricyclics, valproic acid, valproic acid free, vancomycin											

	1	2	3	4	5	6	7	8	9	10	11	12
2480 Vitamin A, E and D metabolites				■								■
Specimens: 2 liquid human serum samples, 1 mL each Examinations: Vitamin A, vitamin E, 25(OH)D, 1,25(OH)2D	Notes: Target values for D vitamin metabolites are provided											

	1	2	3	4	5	6	7	8	9	10	11	12
2481 Vitamin A, E and D metabolites, extra set of samples				■								■
Specimens: 2 liquid human serum samples, 5 mL each	Notes: Only in connection with scheme 2480											

Clinical chemistry » Specific proteins

	1	2	3	4	5	6	7	8	9	10	11	12
2132 C-reactive protein (CRP), quantitative methods		■		■		■			■			■
Specimens: 2 human serum samples, 1 mL each Examinations: CRP	Notes: For both clinical laboratories and POCT units. See also scheme 2020 (General short-term clinical chemistry CRP) run 12 times a year.											

	1	2	3	4	5	6	7	8	9	10	11	12
2140 Decialotransferrin [EQUALIS]	■		■		■			■		■		■
Specimens: 2 human plasma samples, varying concentration of CDT Examinations: CDT	Notes: Participation is not possible for less than 6 rounds in a year											

	1	2	3	4	5	6	7	8	9	10	11	12
2751 Faecal calprotectin		■			■			■				■
Specimens: 2 faecal specimens, lyophilized	Examinations: Calprotectin											

	1	2	3	4	5	6	7	8	9	10	11	12
2200 Lipids and lipoproteins		■							■			
Specimens: 2 fresh human serum samples, 0.5–1 mL each		Notes: Separate round for Lp(a), see scheme 2202										
Examinations: Cholesterol, HDL cholesterol, LDL cholesterol, lipoprotein apo A1, lipoprotein apo A2, lipoprotein apo B, lipoprotein (a), triglycerides												

	1	2	3	4	5	6	7	8	9	10	11	12
2202 Lipoprotein a		■							■			
Specimens: 1 liquid or lyophilized human serum preparation		Examinations: Lp(a)										

	1	2	3	4	5	6	7	8	9	10	11	12
2280 Procalcitonin				■						■		
Specimens: 2 liquid or lyophilized samples		Examinations: Procalcitonin										

	1	2	3	4	5	6	7	8	9	10	11	12
2160 Proteins in cerebrospinal fluid				■					■			
Specimens: 1 cerebrospinal fluid, 1.8 mL and 1 human serum sample, 1 mL		Examinations: Cerebrospinal fluid: Albumin, IgG, total protein, IgG index. Serum: Albumin, IgG.										

	1	2	3	4	5	6	7	8	9	10	11	12
2240 Proteins, electrophoresis		■			■			■			■	
Specimens: 2 liquid or lyophilized human serum samples, 0.5–1 mL each		Examinations: Electrophoresis, contains immunofixation										

	1	2	3	4	5	6	7	8	9	10	11	12
2230 Proteins, immunochemical determinations	■			■		■			■			
Specimens: 2 liquid or lyophilized human serum samples, 1 mL each		Examinations: Alpha-1-antitrypsin, alpha-2-macroglobulin, albumin, ceruloplasmin, complement C3, complement C4, haptoglobin, hemopexin,										
		Examinations: IgA, IgG, IgLcKappa, IgLcLambda, IgLcKappa free, IgLcLambda free, IgM, orosomuroid, pre-albumin, RBP, transferrin, transferrin receptor										

Clinical chemistry » Tumour markers

	1	2	3	4	5	6	7	8	9	10	11	12
2226 Prostate specific antigen	■			■			■			■		
Specimens: 2 liquid human serum samples, 1 mL each		Examinations: PSA, complexed PSA, free PSA, free/total PSA ratio										

	1	2	3	4	5	6	7	8	9	10	11	12
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.										
Examinations: AFP, CA 125, CA 153, CA 199, CEA, ferritin, hCG (total, intact, beta-subunit), PSA, PSA free/total index, TG, TG antibodies, beta-2-microglobulin, Anti-Müllerian hormone, NSE, HE4												

	1	2	3	4	5	6	7	8	9	10	11	12
2701 Tumour markers, extra set of samples		■			■			■			■	
Specimens: 2 liquid human serum samples, 2 mL each		Notes: Only in connection with scheme 2700										

Clinical chemistry » Urine analysis

	1	2	3	4	5	6	7	8	9	10	11	12
3240 Albumin and creatinine in urine				■						■		
Specimens: 2 human urine samples with spiked albumin and creatinine, 4 mL each		Examinations: Albumin, creatinine, albumin-creatinine ratio Notes: Only for quantitative analysis										

POCT	3300 Drug abuse screening in urine	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: 2 authentic samples, 5 mL each</p> <p>Examinations: Amphetamines, barbiturates, benzo-diazepines, buprenorphine, cannabinoids, cocaine metabolites, gammahydroxybutyrate, methadone metabolites, opiates, phencyclidine, propoxyphene</p>	<p>Notes: For both clinical laboratories and POCT units. Expert laboratory confirmatory results are provided. Contact Labquality for the full list of analytes. Results are reported as positive or negative</p>											
POCT	3270 Pregnancy test	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: 2 fresh urine samples, 1 mL each</p> <p>Examinations: Qualitative hCG</p>	<p>Notes: For both clinical laboratories and POCT units</p>											
POCT	3200 Urine, identification of cells and other particles	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: 4 digital images</p> <p>Examinations: Identification of cells and other particles</p>	<p>Notes: Images are also available as paper prints, see scheme 3201</p>											
POCT	3201 Urine, identification of cells and other particles, paper prints	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: Images of scheme 3200 as paper prints</p>	<p>Notes: Only in connection with scheme 3200</p>											
POCT	3160 Urine, quantitative chemistry	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: 1 lyophilized or liquid urine, 8–10 mL</p>	<p>Examinations: Albumin, amylase, calcium, chloride, cortisol-free, creatinine, glucose, magnesium, osmolality, pH, phosphorus, potassium, protein, relative density, sodium, urea, uric acid</p>											
POCT	3100 Urine, strip test A	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: 1 lyophilized urine sample with varying concentrations, 15 mL</p> <p>Examinations: Glucose, ketones, leukocytes, nitrite, pH, protein, blood, relative density</p>	<p>Notes: For both clinical laboratories and POCT units. Water for dissolution available, see scheme 3101, should be ordered separately.</p>											
POCT	3101 Urine strip test A, 15 mL water for sample dissolution	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: 15 mL water for dissolution of samples of scheme 3100</p>	<p>Notes: Only in connection with scheme 3100</p>											
POCT	3130 Urine, strip test B, particle count and estimation of density	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: 1 lyophilized or liquid urine, 12–15 mL</p> <p>Examinations: Particle count: erythrocytes and leukocytes. Estimation of density: creatinine, relative density, osmolality. Strip tests: glucose, ketones, leukocytes, nitrite, pH, protein, blood.</p>	<p>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.</p>											
POCT	3131 Urine, strip test B, 15 mL water for sample dissolution	1	2	3	4	5	6	7	8	9	10	11	12
	<p>Specimens: 15 mL water for dissolution of lyophilized samples of scheme</p>	<p>Notes: Only in connection with scheme 3130</p>											

Haematology

The haematology offering 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.

Haematology » Blood transfusion serological tests

	1	2	3	4	5	6	7	8	9	10	11	12
4420 ABO and Rh grouping		■			■			■			■	
Specimens: 2 whole blood samples	Examinations: Reaction strengths and interpretation											
4460 Antibody screening and compatibility testing		■			■			■			■	
Specimens: 2 whole blood samples for antibody screening and 4 red blood cell suspensions for compatibility testing	Examinations: Reaction strengths and interpretation											
4440 Antiglobulin test, direct		■			■			■			■	
Specimens: 2 red cell suspensions	Examinations: Reaction strengths and interpretation											

Haematology » Cell count and cell morphology

	1	2	3	4	5	6	7	8	9	10	11	12
4100 Basic blood count, one specimen	■	■	■	■	■	■	■	■	■	■	■	■
Specimens: 1 blood cell suspension	Examinations: Hb, HCT, MCH, MCHC, MCV, PLT, RBC, RDW (red cell distribution width), WBC, cumulative patient means of MCH, MCHC and MCV											
4110 Basic blood count, two specimens	■	■	■	■	■	■	■	■	■	■	■	■
Specimens: 2 blood cell suspensions	Examinations: Hb, HCT, MCH, MCHC, MCV, PLT, RBC, RDW (red cell distribution width), WBC, cumulative patient means of MCH, MCHC and MCV											
4180 Leucocyte differential count and evaluation of blood cell morphology					■					■		
Specimens: 2-3 unstained blood smears	Examinations: Leucocyte differential count and evaluation of red blood cells											
4200-4201 Leucocyte differential count, 3-part, automated			■			■			■			■
Specimens: 1 blood cell suspension, 2-4 mL	Analyzer specific product codes:											
Examinations: Absolute numbers of leucocytes, lymphocytes, mononuclear cells and granulocytes	4200: ABX, Advia, Cell-Dyn, Coulter, Nihon Kohden Celltac MEK 4201: Sysmex											

	1	2	3	4	5	6	7	8	9	10	11	12	
4230–4237 Leucocyte differential count, 5-part, automated			■			■			■			■	
Specimens: 1 blood cell suspension, 2–4 mL													
Examinations: Leucocytes, basophils, eosinophils, granulocytes, lymphocytes and monocytes													
Analyzer specific product codes:													
4234: ABX Pentra							4236: Mindray						
4231: Cell-Dyn							4237: Nihon Kohden Celltac MEK						
4232: Coulter							4230: Siemens Advia						
4235: Coulter ACT5-diff							4233: Sysmex XE, XS, XT, XN						

	1	2	3	4	5	6	7	8	9	10	11	12
5460 Parasites in blood, Giemsa stain		■			■			■			■	
Specimens: 2 Giemsa stained smears. Brief case histories are also given. Authentic samples.												
Examinations: Screening and identification of malaria plasmodia and other blood parasites												

	1	2	3	4	5	6	7	8	9	10	11	12
5470 Parasites in blood, Giemsa stain, virtual microscopy				■						■		
Specimens: Virtual whole slide images of Giemsa stained smears prepared by using a scanner microscope												
Examinations: Screening and identification of malaria plasmodia and other blood parasites												

	1	2	3	4	5	6	7	8	9	10	11	12
5461 Parasites in blood, MGG stain		■			■			■			■	
Specimens: 2 May-Grünwald-Giemsa stained smears. Brief case histories are also given. Authentic samples.												
Examinations: Screening and identification of malaria plasmodia and other blood parasites												

	1	2	3	4	5	6	7	8	9	10	11	12
5471 Parasites in blood, MGG stain, virtual microscopy				■						■		
Specimens: Virtual whole slide images of May-Grünwald-Giemsa stained smears prepared by using a scanner microscope												
Examinations: Screening and identification of malaria plasmodia and other blood parasites												

	1	2	3	4	5	6	7	8	9	10	11	12
4140 Reticulocyte count, manual methods			■			■			■			■
Specimens: 1 stabilized red blood cell suspension, 2 mL												
Examinations: Reticulocyte count												

	1	2	3	4	5	6	7	8	9	10	11	12	
4150–4155 Reticulocyte count, automated			■			■			■			■	
Specimens: 2 stabilized red blood cell suspensions, 2–4 mL each													
Examinations: Reticulocyte count													
Analyzer specific product codes:													
4154: ABX Pentra							4152: Coulter Gens, LH750						
4151: Cell-Dyn 4000, Sapphire							4150: Siemens Advia						
4155: Cell-Dyn 3200, 3500, 3700, Ruby							4153: Sysmex						

	1	2	3	4	5	6	7	8	9	10	11	12
4130 White blood cell count: HemoCue, POCT			■						■			
Specimens: 1 blood cell suspension, 2 mL												
Examinations: Leucocytes												
Notes: The scheme is for HemoCue WBC Systems												

	1	2	3	4	5	6	7	8	9	10	11	12
4190 White blood cell differential count: HemoCue, POCT						■						■
Specimens: 1 blood cell suspension, 2 mL												
Examinations: Leucocytes, neutrophils, lymphocytes, monocytes, basophils, eosinophils												
Notes: The scheme is for HemoCue WBC Diff analyzers (5-part)												

Haematology » Coagulation

	1	2	3	4	5	6	7	8	9	10	11	12
4330 Activated partial thromboplastin time and fibrinogen		■			■			■			■	
Specimens: 2 lyophilized plasma samples, 0.5–1 mL each	Examinations: Coagulation time in seconds, fibrinogen											

	1	2	3	4	5	6	7	8	9	10	11	12
4392 Anticoagulants: Dabigatran					■						■	
Specimens: 2 lyophilized plasma samples	Examinations: Dabigatran concentration											

	1	2	3	4	5	6	7	8	9	10	11	12
4387 Anticoagulants: LMW-Heparin/antiFXa		■			■			■			■	
Specimens: 2 lyophilized plasma samples, 0.5–1 mL each	Examinations: LMW-heparin/antiFXA											

	1	2	3	4	5	6	7	8	9	10	11	12
4391 Anticoagulants: Rivaroxaban					■						■	
Specimens: 2 lyophilized plasma samples	Examinations: Rivaroxaban concentration											

	1	2	3	4	5	6	7	8	9	10	11	12
4388 D-dimer		■			■			■			■	
Specimens: 2 pooled plasma samples, 0.5–1 mL each	Examinations: D-Dimer											

	1	2	3	4	5	6	7	8	9	10	11	12
4332 INR, Alere INRatio, POCT					■						■	
Specimens: 1 strip from the manufacturer and capillary blood from the laboratory	Examinations: Prothrombin time in INR unit											

POCT

	1	2	3	4	5	6	7	8	9	10	11	12
4335 INR, POCT					■						■	
Specimens: 1 lyophilized or liquid plasma sample	Notes: Only for CoaguChek											
Examinations: Prothrombin time in INR unit												

POCT

	1	2	3	4	5	6	7	8	9	10	11	12
4300 Prothrombin time		■			■			■			■	
Specimens: 2 lyophilized plasma samples, 0.5–1 mL each	Examinations: Prothrombin time, PT%											

	1	2	3	4	5	6	7	8	9	10	11	12
4386 Special coagulation		■			■			■			■	
Specimens: 2 lyophilized plasma samples, 0.5–1 mL each	Examinations: Antithrombin, Factor VIII, Protein C, Protein S											



EQA schemes for **blood banks**

Blood transfusion serology

- 4420 ABO and Rh grouping
- 4460 Antibody screening and compatibility testing
- 4440 Antiglobulin test, direct

Virology, serological tests

- 5650 Cytomegalovirus, antibodies (CMV)
- 5092 Hepatitis A, antibodies (HAV)
- 5093 Hepatitis B, s-antigen antibodies, quantitative (HBsAb)
- 5094-5096 Hepatitis B and C, serology (HBV and HCV)
- 5091 HIV, antibodies
- 5089 Human T-cell lymphotropic virus, antibodies (HTLV)
- 5660 Parvovirus B19, antibodies

Bacterial serology

- 5880 Syphilis serology
- Virology, molecular tests
- 5679 Hepatitis B virus, DNA (HBV)
- 5678 Hepatitis C virus, RNA (HCV)
- 5680 HIV, RNA



EQA services for **POCT units**

Patient outcome is associated with obtaining a reliable test result regardless of where the testing is performed. To ensure 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 units. 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
- 2132 CRP, quantitative methods
- 3300 Drug abuse screening in urine
- 2750 Faecal occult blood
- 2570, 2580, 2590 Glucose meters
- 1263 Haemoglobin A1c, liquid samples
- 2112, 2114 Haemoglobin, 3 / 1 -level
- 2690 Natriuretic peptides 1, B-type, NT-ProBNP
- 2691 Natriuretic peptides 2, B-type, BNP
- 7803 Preanalytics, blood gas analyzers
- 7801 Preanalytics, phlebotomy and POCT units
- 3270 Pregnancy test
- 2530 Troponin I and T, detection
- 3100 Urine, strip tests A

Haematology

- 4332 INR, HemoSense INRatio, POCT
- 4335 INR, POCT
- 4130 White blood cell count: HemoCue, POCT
- 4190 White blood cell differential count: HemoCue, POCT

Microbiology

- 5640 EBV mononucleosis, heterophile antibodies
- 5596 Helicobacter pylori, antigen detection in faeces
- 5090 HIV, antibodies
- 5671 Influenza virus A+B, detection
- 5430 Malaria, antigen detection
- 5980 Mycoplasma pneumoniae, antibodies
- 5560 Puumala virus, antibodies
- 5672 RS-virus, detection
- 5595 Streptococcus, group A, antigen detection
- 5594 Streptococcus, group B (GBS), detection
- 5099 Tick-borne encephalitis virus, antibodies

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 and clinical interpretation of the results is included as part of the surveys. For allergy diagnostics, review the allergology program in the clinical chemistry portfolio.

5935 ANCA and GbmAb	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 liquid human serum or plasma samples, 0.5 mL each Examinations: Anti-neutrophilic cytoplasmic Ab, Myeloperoxidase Ab,		■						■				
Proteinase-3 Ab and Glomerular basement membrane Ab Notes: Quantitative results are also processed (Pr3Ab, MPOAb)												
5900 Antinuclear antibodies	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 3 liquid human serum or plasma samples, 0.6 mL each Examinations: ANA, ENAAb, RNPAb, SmAb, SSAAb, SSBAb, Scl70Ab, CentAb, Jo1Ab, DNAnAb (dsDNA), HistAb				■						■		
Notes: Extractable antinuclear antigens and double-stranded deoxyribonucleic acid are included												
5930 Autoimmune liver disease and gastric parietal cell antibodies	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 liquid human serum or plasma samples, 0.4 mL each					■						■	
Examinations: Liver kidney microsomal antibodies, Smooth muscle antibodies, Mitochondrial antibodies, Gastric parietal cell antibodies												
5940 Coeliac disease, antibodies	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 liquid human serum or plasma samples, 0.7 mL each Examinations: Endomysium antibodies, tissue transglutaminase antibodies, deamidated gliadin peptide antibodies		■				■				■		
Notes: Quantitative results are also processed (tTGAbA, tTGAbG, DGPAbA, DGPAbG)												
5937 Phospholipid antibodies	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 liquid human serum or plasma samples, 0.5 mL each					■							
Examinations: Phospholipid antibodies, Cardiolipin antibodies (IgG and IgM), beta-2-glycoprotein antibodies (IgG)												
5820 Rheumatoid factor and citrullic peptide antibodies	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 liquid human serum or plasma samples, 0.7 mL each	■			■			■			■		
Examinations: Qualitative and quantitative RF, cyclic citrullinated peptide Ab												
5920 Thyroid gland antibodies	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 liquid human serum or plasma samples, 0.4 mL each Examinations: Thyroglobulin antibodies and thyroid peroxidase antibodies			■			■				■		
Notes: Quantitative results are also processed												
5913 TSH receptor antibodies	1	2	3	4	5	6	7	8	9	10	11	12
Specimens: 2 liquid human serum samples, 0.4 mL each Examinations: Thyroid stimulating hormone receptor antibodies			■						■			
Notes: Quantitative results are also processed												

Microbiology

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

Microbiology » Bacterial Serology

	1	2	3	4	5	6	7	8	9	10	11	12
5840 Antistreptolysin		■			■			■			■	
Specimens: 2 liquid human serum or plasma samples, 0.4 mL each	Examinations: Qualitative and quantitative ASO											
5950 <i>Bordetella pertussis</i>, antibodies	■			■				■			■	
Specimens: 2 liquid human serum samples, ≥ 0.3 mL each	Examinations: <i>B. pertussis</i> IgA, IgG & IgM antibodies, Pertussis toxin IgA, IgG & IgM and clinical interpretation											
5960 <i>Borrelia burgdorferi</i>, antibodies, European origin	■			■				■			■	
Specimens: 2 liquid human serum or plasma samples, 0.5 mL each	Examinations: <i>B. burgdorferi</i> IgG, IgM and total antibodies, clinical interpretation											
5620 <i>Chlamydia pneumoniae</i>, antibodies		■			■			■			■	
Specimens: 1 single serum and 1 paired serum samples, 0.4 mL each	Examinations: <i>C. pneumoniae</i> IgA, IgG, IgM antibodies, clinical interpretation											
5970 Enteropathogens, antibodies		■			■				■			■
Specimens: 2 liquid human serum or plasma samples, 0.6 mL each	Examinations: Salmonella and yersinia IgA, IgG, IgM and total antibodies, clinical interpretation											
5860 <i>Helicobacter pylori</i>, antibodies			■			■			■			■
Specimens: 2 liquid human serum or plasma samples, 0.4 mL each	Examinations: <i>H. pylori</i> IgA, IgG and total antibodies, quantitative and qualitative tests, clinical interpretation											
5980 <i>Mycoplasma pneumoniae</i>, antibodies		■			■				■		■	
Specimens: 2 liquid human serum samples, 0.3 mL each	Notes: For both clinical laboratories and POCT units											
Examinations: <i>M. pneumoniae</i> IgG, IgM and total antibodies, clinical interpretation												
5880 Syphilis serology		■				■				■		■
Specimens: 2 liquid human serum or plasma samples, 0.6 mL each	Examinations: Cardiolipin, <i>Treponema pallidum</i> antibodies and clinical interpretation											

POCT

Microbiology » Bacteriology

	1	2	3	4	5	6	7	8	9	10	11	12
5050 Bacteriological staining, direct				■						■		
Specimens: 3–9 digital images	Examinations: Interpretation of digital images taken from direct bacteriological staining of clinical samples											

	1	2	3	4	5	6	7	8	9	10	11	12
5100 Blood culture			■		■					■		■
Specimens: 2 lyophilized samples. Brief case histories also given. Fresh blood is needed in the specimen preparation. The samples intended for susceptibility testing may include both international quality control strains and susceptible or resistant clinical strains.	Examinations: Culture, identification, antimicrobial susceptibility Notes: Fresh blood is needed but not included in the shipment											

	1	2	3	4	5	6	7	8	9	10	11	12
5101 Blood culture, screening			■		■					■		■
Specimens: 2 lyophilized samples. Brief case histories also given. Fresh blood is needed in the sample preparation.	Examinations: Culture, preliminary identification using Gram staining. The scheme is also suitable for stem cell banks screening only for possible growth. Notes: Fresh blood is needed but not included in the shipment											

	1	2	3	4	5	6	7	8	9	10	11	12
5150 Cerebrospinal fluid, culture		■			■				■			■
Specimens: 2 lyophilized samples. Brief case histories also given.	Examinations: Culture and identification. The scheme is also suitable for laboratories performing screening and reporting merely a preliminary identification.											

	1	2	3	4	5	6	7	8	9	10	11	12
5612 <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> nucleic acid detection				■		■			■			■
Specimens: 3 samples (swab and/or liquid samples)	Examinations: Detection of <i>C. trachomatis</i> and <i>N. gonorrhoeae</i> nucleic acid											

	1	2	3	4	5	6	7	8	9	10	11	12
5200 <i>Clostridium difficile</i>		■			■			■			■	
Specimens: 2 lyophilized mixtures of bacteria	Examinations: This scheme includes <i>C. difficile</i> culture, antigen detection (GDH), toxin detection and direct nucleic acid detection											

	1	2	3	4	5	6	7	8	9	10	11	12
5202 <i>Clostridium difficile</i>, extra set of samples		■			■			■			■	
Specimens: 2 lyophilized mixtures of bacteria	Notes: Only in connection with scheme 5200											

	1	2	3	4	5	6	7	8	9	10	11	12
5201 <i>Clostridium difficile</i>, nucleic acid detection		■			■			■			■	
Specimens: 2 lyophilized mixtures of bacteria	Notes: 5200 includes also this examination											

	1	2	3	4	5	6	7	8	9	10	11	12
5190 Faecal culture				■		■				■		■
Specimens: 2 lyophilized mixtures of bacteria	Examinations: Culture and direct nucleic acid detection. Pathogens included are <i>Campylobacter</i> , <i>Salmonella</i> , <i>Shigella</i> and <i>Yersinia</i> .											

	1	2	3	4	5	6	7	8	9	10	11	12
5191 Faecal bacterial pathogens, nucleic acid detection				■		■				■		■
Specimens: 2 lyophilized mixtures of bacteria	Notes: 5190 includes also this examination											
Examinations: Direct nucleic acid detection. Pathogens included are <i>Campylobacter</i> , <i>Salmonella</i> , <i>Shigella</i> and <i>Yersinia</i> .												

	1	2	3	4	5	6	7	8	9	10	11	12
5080 General Bacteriology 1 (aerobes and anaerobes)			■		■				■			■
Specimens: 4 lyophilized mixtures of microbes: both pathogens and normal flora. The samples intended for susceptibility testing may include both international quality control strains and susceptible or resistant clinical strains. Brief case histories are also given.	Examinations: Isolation of pathogens and antimicrobial susceptibility testing Notes: 5080 includes 5081, General Bacteriology 2											

	1	2	3	4	5	6	7	8	9	10	11	12
5081 General Bacteriology 2 (aerobes)			■		■				■			■
Specimens: 2 lyophilized mixtures of microbes: both pathogens and normal flora. The specimens intended for susceptibility testing may include both international quality control strains and susceptible or resistant clinical strains. Brief case histories are also given.	Examinations: Isolation of pathogens and antimicrobial susceptibility testing Notes: 5080 General Bacteriology 1 includes 5081											

	1	2	3	4	5	6	7	8	9	10	11	12
5040 Gram stain, colonies	■			■			■			■		
Specimens: 3 air-dried, unfixed microbe suspensions on a slide	Examinations: Staining and microscopy											

	1	2	3	4	5	6	7	8	9	10	11	12
5041 Gram stain, blood culture	■			■			■			■		
Specimens: 2–3 air-dried microbe suspensions on slides	Examinations: Staining and microscopy											

	1	2	3	4	5	6	7	8	9	10	11	12
5596 <i>Helicobacter pylori</i>, antigen detection in faeces			■			■			■			■
Specimens: 3 lyophilized faecal samples Examinations: Antigen detection	Notes: For both clinical laboratories and POCT units											

	1	2	3	4	5	6	7	8	9	10	11	12
5597 Legionella, antigen detection in urine			■		■				■			■
Specimens: 3 simulated urine samples	Examinations: Legionella antigen detection											

	1	2	3	4	5	6	7	8	9	10	11	12
5220 Mycobacterial culture and stain			■			■			■			■
Specimens: 2 lyophilized samples and 2 fixed smears on slides	Examinations: Detection of <i>Mycobacterium tuberculosis</i> and atypical mycobacteria: culture, direct nucleic acid detection, acid-fast staining and microscopy											

	1	2	3	4	5	6	7	8	9	10	11	12
5221 Mycobacterial nucleic acid detection			■			■			■			■
Specimens: 2 lyophilized samples and 2 fixed smears on slides Examinations: Direct nucleic acid detection. This scheme includes also 2 smears.	Notes: 5220 includes also this examination											

	1	2	3	4	5	6	7	8	9	10	11	12
5240 Mycobacterial stain			■			■			■			■
Specimens: 2 fixed smears on slides	Examinations: Acid-fast staining and microscopy											

	1	2	3	4	5	6	7	8	9	10	11	12
5120 <i>Neisseria gonorrhoeae</i> (Gc), culture and susceptibility testing			■		■			■				■
Specimens: 2 lyophilized mixtures of microbes in loops	Examinations: Culture and identification. Also suitable for laboratories performing preliminary screening. Susceptibility testing.											

	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 also includes 5180											

	1	2	3	4	5	6	7	8	9	10	11	12
5595 Streptococcus group A, antigen detection			■		■				■			■
Specimens: 3 simulated pharyngeal samples Examinations: Antigen detection	Notes: For both clinical laboratories and POCT units											

POCT

	1	2	3	4	5	6	7	8	9	10	11	12
5594 Streptococcus group B (GBS), detection				■		■			■		■	
Specimens: 2 lyophilized samples. Samples include pathogens and/or normal flora.	Examinations: Culture, direct nucleic acid detection and antigen detection											

POCT

	1	2	3	4	5	6	7	8	9	10	11	12
5598 Streptococcus pneumoniae, antigen detection in urine			■		■				■			■
Specimens: 3 simulated urine specimens	Examinations: <i>S. pneumoniae</i> antigen detection											

	1	2	3	4	5	6	7	8	9	10	11	12
5071 Surveillance culture for multidrug resistant bacteria, MRSA		■				■			■		■	
Specimens: 1 lyophilized mixture of microbes; including pathogens and/or normal flora	Examinations: The scheme is intended for laboratories performing screening of MRSA (methicillin resistant <i>Staphylococcus aureus</i>) by culture and/or direct nucleic acid detection method											

	1	2	3	4	5	6	7	8	9	10	11	12
5072 Surveillance culture for multidrug resistant bacteria, VRE		■				■			■		■	
Specimens: 1 lyophilized mixture of microbes; including pathogens and/or normal flora	Examinations: The scheme is intended for laboratories performing screening of VRE (vancomycin-resistant enterococci) by culture and/or direct nucleic acid detection method											

	1	2	3	4	5	6	7	8	9	10	11	12
5073 Surveillance culture for multidrug resistant bacteria, gramnegative rods		■				■			■		■	
Specimens: 1 lyophilized mixture of microbes; including pathogens and/or normal flora	Examinations: The scheme is intended for laboratories performing screening of multidrug resistant gramnegative rods (e.g. CPE, ESBL, MDR <i>Acinetobacter</i> and <i>P. aeruginosa</i>) by culture and/or direct nucleic acid detection method											

	1	2	3	4	5	6	7	8	9	10	11	12
5140 Throat streptococcal culture			■		■			■			■	
Specimens: 3 lyophilized mixtures of bacteria	Examinations: Culture and identification of group A, C and G streptococci											

	1	2	3	4	5	6	7	8	9	10	11	12
5060 Urine culture, quantitative screening			■			■			■			■
Specimens: 2 lyophilized samples and dilutor. Brief case histories also given.	Examinations: Culture and quantitation											

	1	2	3	4	5	6	7	8	9	10	11	12
5065 Urine culture, quantitative screening, identification and susceptibility			■			■			■			■
Specimens: 2 lyophilized samples and dilutor. Brief case histories also given. The samples intended for susceptibility testing may include both international quality control strains and susceptible or resistant clinical strains.	Examinations: Culture, quantitation, identification and antimicrobial susceptibility testing											

Microbiology » Mycology

	1	2	3	4	5	6	7	8	9	10	11	12
5260 Fungal culture			■		■				■		■	
Specimens: 3 lyophilized samples. Brief case histories also given. The samples include moulds, dermatophytes and yeasts.	Examinations: Culture and identification. Antimicrobial susceptibility of yeast strains.											

Microbiology » Parasitology

	1	2	3	4	5	6	7	8	9	10	11	12
5460 Parasites in blood, Giemsa stain		■			■			■			■	
Specimens: 2 Giemsa stained smears. Brief case histories are also given. Authentic samples.	Examinations: Screening and identification of malaria plasmodia and other blood parasites											

	1	2	3	4	5	6	7	8	9	10	11	12
5470 Parasites in blood, Giemsa stain, virtual microscopy				■						■		
Specimens: Virtual whole slide images of Giemsa stained smears prepared by using a scanner microscope. Authentic samples.	Examinations: Screening and identification of malaria plasmodia and other blood parasites											

	1	2	3	4	5	6	7	8	9	10	11	12
5461 Parasites in blood, May-Grünwald-Giemsa stain		■			■			■			■	
Specimens: 2 MGG stained smears. Brief case histories are also given. Authentic samples.	Examinations: Screening and identification of malaria plasmodia and other blood parasites											

	1	2	3	4	5	6	7	8	9	10	11	12
5471 Parasites in blood, May-Grünwald-Giemsa stain, virtual microscopy				■						■		
Specimens: Virtual whole slide images of MGG stained smears prepared by using a scanner microscope. Brief case histories are also given. Authentic samples.	Examinations: Screening and identification of malaria plasmodia and other blood parasites											

	1	2	3	4	5	6	7	8	9	10	11	12
5440 Parasites in faeces		■			■			■			■	
Specimens: 3 stool samples in formalin. Brief case histories also given.	Examinations: Screening and identification of intestinal parasites (ova and parasites)											

	1	2	3	4	5	6	7	8	9	10	11	12
5450 Parasites in faeces, virtual microscopy				■						■		
Specimens: Virtual whole slide images of stool samples in formalin prepared by using a scanner microscope. Brief case histories also given.	Examinations: Screening and identification of intestinal parasites (ova and parasites)											

	1	2	3	4	5	6	7	8	9	10	11	12
5430 Malaria, antigen detection		■			■			■			■	
Specimens: 3 whole blood samples Examinations: Antigen detection	Notes: Both for clinical laboratories and POCT units											

	1	2	3	4	5	6	7	8	9	10	11	12
5420 Toxoplasma, antibodies		■			■			■			■	
Specimens: 3 liquid human plasma samples, 0.7 mL each. Brief case histories also given. Authentic commutable samples: Each sample batch originates from a single human donor.	Examinations: IgA, IgG and IgM antibodies, avidity and clinical interpretation											

Microbiology » Virology

	1	2	3	4	5	6	7	8	9	10	11	12
5650 Cytomegalovirus, antibodies		■			■				■			■
Specimens: 3 liquid human plasma samples, ≥ 0.7 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: Cytomegalovirus IgG, IgM and total antibodies, IgG avidity and clinical interpretation											
5640 EBV mononucleosis, heterophile antibodies		■			■				■			■
Specimens: 3 liquid human plasma samples, 0.5 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: MonAb, heterophile antibodies Notes: Both for clinical laboratories and POCT units											
5641 EBV mononucleosis, specific antibodies		■			■				■			■
Specimens: 3 liquid human plasma samples, 1.5 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: EBNAAb, EBVAb, EBVAbG, EBVAbM, EBVAvi. Specific antibodies: clinical interpretation.											
5092 Hepatitis A, antibodies			■			■			■			■
Specimens: 3 liquid human plasma samples, ≥ 0.7 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: HAVAb, HAVAbM, HAVAbG and clinical interpretation											
5094–5096 Hepatitis B and C, serology, specimen volume 0.6 mL / 1.2 mL / 2.0 mL			■			■			■			■
Specimens: 3 liquid human plasma samples, 0.6 / 1.2 or 2.0 mL. Authentic commutable samples: each batch originates from a single human donor. Examinations: HBcAb, HBcAbM, HBeAb, HBeAg, HBsAb (qual), HBsAg, HCVAb, HCVAbCt and clinical interpretation	Volume specific product codes: 5094: for 0.6 mL human plasma specimens 5095: for 1.2 mL human plasma specimens 5096: for 2.0 mL human plasma specimens											
5093 Hepatitis B, s-antigen antibodies, quantitative	■			■			■			■		
Specimens: 2 liquid human plasma or serum samples, ≥ 0.5 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: HBsAb (anti-HBs), quantitative											
5679 Hepatitis B virus, nucleic acid detection (DNA)					■					■		
Specimens: 3 lyophilized or liquid plasma samples, ≥ 1.2 mL each Examinations: HBV DNA, quantitative and/or qualitative nucleic acid detection	Notes: Delivered together with schemes 5678 and 5680											
5678 Hepatitis C virus, nucleic acid detection (RNA)					■					■		
Specimens: 3 lyophilized or liquid plasma samples, ≥ 1.2 mL each Examinations: HCV RNA, quantitative and/or qualitative nucleic acid detection	Notes: Delivered together with schemes 5679 and 5680											
5555 Herpes simplex 1 and 2, antibodies		■			■			■				■
Specimens: 3 liquid human plasma or serum samples, ≥ 0.5 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: HSVAb, HSVAbG (qualitative/quantitative), HSVAbM, HSV1AbG, HSV2AbG											

POCT

	1	2	3	4	5	6	7	8	9	10	11	12
5091 HIV, antibodies			■			■			■			■
Specimens: 4 liquid human plasma samples, ≥ 0.7 mL each	Examinations: HIVAgAb (combo), HIVAb, HIVAbCt: primary and confirmatory tests, clinical interpretation. Positive specimens may include HIV-1 or HIV-2.											

	1	2	3	4	5	6	7	8	9	10	11	12
5090 HIV, antibodies, POCT			■			■			■			■
Specimens: 3–4 liquid human plasma samples, ≥ 0.5 mL each Examinations: HIVAb and HIVAgAb primary tests (POCT)	Notes: Scheme 5091 is for clinical laboratories											

	1	2	3	4	5	6	7	8	9	10	11	12
5680 HIV, nucleic acid detection (RNA)					■					■		
Specimens: 3 lyophilized or liquid plasma samples, ≥ 1.2 mL each Examinations: HIV RNA, quantitative and/or qualitative nucleic acid detection	Notes: Delivered together with schemes 5678 and 5679											

	1	2	3	4	5	6	7	8	9	10	11	12
5089 Human T-cell lymphotropic virus, antibodies		■			■			■				■
Specimens: 3 liquid human plasma samples, ≥ 0.5 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: HTLVAb: primary and confirmatory tests. Positive samples may include HTLV-1 or HTLV-2.											

	1	2	3	4	5	6	7	8	9	10	11	12
5671 Influenza virus A+B, detection	■											■
Specimens: 3 artificial samples, ≥ 0.5 mL each Examinations: InfAAg, InfABAg, InfBAG, InfA NAT, InfB NAT	Notes: Both for clinical laboratories and POCT units											

	1	2	3	4	5	6	7	8	9	10	11	12
5668 Measles virus, antibodies	■			■			■			■		
Specimens: 3 liquid human plasma samples, ≥ 0.5 mL each	Examinations: Measles virus IgG and IgM antibodies and clinical interpretation											

	1	2	3	4	5	6	7	8	9	10	11	12
5669 Mumps virus, antibodies	■			■			■			■		
Specimens: 3 liquid human plasma samples, ≥ 0.5 mL each	Examinations: Mumps virus IgG and IgM antibodies and clinical interpretation											

	1	2	3	4	5	6	7	8	9	10	11	12
5660 Parvovirus B19, antibodies		■			■			■				■
Specimens: 3 liquid human plasma or serum samples, ≥ 0.4 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: Parvovirus IgG, IgM and total antibodies, IgG avidity and clinical interpretation											

	1	2	3	4	5	6	7	8	9	10	11	12
5560 Puumala virus, antibodies			■			■				■		■
Specimens: 3 liquid human plasma or serum samples, ≥ 0.3 mL each. Brief case histories are also provided.	Examinations: Puumala virus IgG, IgM and total antibodies, POC tests and specific antibodies, IgG avidity and clinical interpretation Notes: For both clinical laboratories and POCT units											

	1	2	3	4	5	6	7	8	9	10	11	12
5098 Rotavirus and adenovirus, antigen detection			■			■			■			■
Specimens: 3 faecal suspensions	Examinations: Direct rotavirus and adenovirus antigen detection											

	1	2	3	4	5	6	7	8	9	10	11	12	
5672 RS-virus, detection	■										■		POCT
Specimens: 3 artificial samples, ≥ 0.5 mL each Examinations: RSV NAT, RSVAg	Notes: For both clinical laboratories and POCT units												
5667 Rubella virus, antibodies	■			■			■			■			
Specimens: 3 liquid human plasma samples, ≥ 0.5 mL each	Examinations: Rubella virus IgG and IgM antibodies, IgG avidity and clinical interpretation												
5099 Tick-borne encephalitis virus, antibodies		■			■			■			■		POCT
Specimens: 3 liquid human plasma or serum samples, ≥ 0.5 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: TBEAb, TBEAbG, TBEAbM and clinical interpretation Notes: Both for clinical laboratories and POCT units												
5665 Varicella-zoster virus, antibodies		■			■			■			■		
Specimens: 3 liquid human plasma or serum samples, ≥ 0.5 mL each. Authentic commutable samples: each batch originates from a single human donor.	Examinations: Varicella zoster IgG, IgM and total antibodies and clinical interpretation												

EQA schemes suitable for **direct nucleic acid testing methods**

Bacteriology

- 5612 *C. trachomatis* and *N. gonorrhoeae*, nucleic acid detection
- 5201 *Clostridium difficile*, nucleic acid detection
- 5191 Faecal bacterial pathogens, nucleic acid detection
- 5221 Mycobacterial nucleic acid detection
- 5594 *Streptococcus*, group B (GBS), detection
- 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

Virology

- 5679 Hepatitis B virus, DNA
- 5678 Hepatitis C virus, RNA
- 5680 HIV, RNA
- 5671 Influenza virus A + B, detection
- 5672 RS-virus, detection

Pathology

Six high quality schemes are available for pathology laboratories. With changing topics of the rounds, both the routine and more advanced needs are covered. The challenges are realistic and include also the 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 » Diagnostics

	1	2	3	4	5	6	7	8	9	10	11	12
VIRTUAL	6700 Gynaecological cytology (smear), virtual microscopy											
	Specimens: Virtual images of at least 5 Papanicolaou stained slides of conventional pap smear samples. The samples are selected from routine cytological material. Diagnostics of cellular atypias in samples taken from gynaecological loci is assessed. Brief case histories and instructions are provided.						Examinations: Observations and diagnoses Notes: Topics may vary annually					
NEW	6701 Gynaecological cytology (liquid based), virtual microscopy											
	Specimens: Virtual images of at least 5 Papanicolaou stained slides of liquid based pap samples (ThinPrep). Diagnostics of cellular atypias in samples taken from gynaecological loci is assessed. Brief case histories and instructions are provided.						Examinations: Observations and diagnoses Notes: Topics may vary annually					
NEW	6702 Non-gynaecological cytology, virtual microscopy											
	Specimens: Virtual images of Papanicolaou stained slides of non-gynaecological cytosentrifuge or smear preparations or May-Grünwald-Giemsa stained smears. Images of at least 5 cases from representative loci. Brief case histories and instructions are provided.						Examinations: Observations and diagnoses Notes: Topics may vary annually					
VIRTUAL	6542 Histopathology, virtual microscopy											
	Topics in 2016: Mar: Lymphatic tissue pathology, Nov: Routine pathology Specimens: Virtual images of at least 5 slides of miscellaneous tissue. Brief case histories and instructions are provided.						Examinations: Observations and diagnoses Notes: Topics may vary annually					

Pathology » Technology

	1	2	3	4	5	6	7	8	9	10	11	12
	6543 Histological staining techniques											
Topics in 2016: Apr: Kongo, Helico, Oct: HE, AB-PAS Specimens: Paraffin sections or smears						Examinations: Staining of the slides. A set of stained slides is returned to Labquality for evaluation by an expert board. Notes: Stains vary annually						
	6600, 6600S Immunohistochemical staining methods											
Topics in 2016: May: CD3, CD20, CD23, BCL-2, BCL-6 (lymphoma) Sep: ER, PR, Ki-67, ECAD, HER2 (breast cancer) Dec: CD34, S-100, CKPAN, Desmin, WT-1 (unknown tumour) Specimens: Paraffin embedded tissue from different tissue blocks or from one multiblock						Examinations: Staining of the slides. A set of stained slides is returned to Labquality for evaluation by an expert board. 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).						

Preanalytics

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

	1	2	3	4	5	6	7	8	9	10	11	12		
7803 Preanalytics, blood gas analyzers				■										POCT
<p>Specimens: 3 cases with preanalytical error(s)</p> <p>Examinations: Participants are asked to find preanalytical error(s) in the cases</p>	<p>Notes: The scheme is intended for all units where blood gas analyzers are used, e.g., POCT, intensive care units, recovery rooms and clinical chemistry laboratories. Scheme is carried out online.</p>													
7800 Preanalytics, clinical chemistry		■							■					
<p>Specimens: 3 cases with preanalytical error(s)</p> <p>Examinations: Laboratories are asked to find preanalytical error(s) in the cases</p>	<p>Notes: The scheme is intended for clinical chemistry laboratories. Scheme is carried out online.</p>													
7802 Preanalytics, microbiology				■								■		
<p>Specimens: 3 cases with preanalytical error(s)</p> <p>Examinations: Participants are asked to find preanalytical error(s) in the cases</p>	<p>Notes: The scheme is intended for all laboratory staff of clinical microbiology laboratories. Scheme is carried out online.</p>													
7801 Preanalytics, phlebotomy and POCT units			■								■			POCT
<p>Specimens: 3 cases with preanalytical error(s)</p> <p>Examinations: Participants are asked to find preanalytical error(s) in the cases</p>	<p>Notes: The scheme is intended for laboratory personnel performing phlebotomy and using POCT devices. Scheme is carried out online.</p>													

Others

Others » Andrology

	1	2	3	4	5	6	7	8	9	10	11	12
6400 Semen analysis										■		
Specimens: 2-3 digital videos and 2-3 series of digital images Examinations: Concentration, morphology and motility	Notes: Scheme is carried out online											

Others » Genetics

	1	2	3	4	5	6	7	8	9	10	11	12
3865 DNA analysis [EQUALIS]			■							■		
Specimens: Whole blood or extracted DNA. Blank samples (water) are sometimes included.	Examinations: DNA-Apolipoprotein E genotype, DNA-Factor 2 (F2) g.20210G>A, DNA-Factor 5 (F5) c.1691G>A, DNA-Hemochromatosis (HFE) c.187C>G; c.845G>A, DNA-Lactase gene (LCT) g.13910C>T, DNA-Methylene tetrahydrofolate reductase (MTHFR) c.677C>T; c.1298A>C											

Others » Laboratory instruments

	1	2	3	4	5	6	7	8	9	10	11	12
8814 ELISA reader photometry control [DEKS]	Circulation starts in March											
Specimens: An ELISA-plate with built-in gray glass filters Examinations: Control for the absorbance scale in ELISA reader	Notes: Absorbance traceable to NIST Control of the absorbance scale of ELISA readers											

	1	2	3	4	5	6	7	8	9	10	11	12
8100 Wavelength scale accuracy										■		
Specimens: 1 solution with several absorbance peaks	Examinations: Absorbance at six different peaks											



Updates for 2016

EQA program 2016 includes several interesting new schemes and listings which facilitates the usage of the catalogue. Some schemes have also discontinued due to lack of demand. Please find below a list of updates.

New schemes and products

- 5202 *Clostridium difficile*, extra set of samples (page 19)
- 5201 *Clostridium difficile*, nucleic acid detection (page 19)
- 5191 Faecal bacterial pathogens, nucleic acid detection (page 19)
- 6701 Gynaecological cytology (liquid based), virtual microscopy (page 26)
- 5221 Mycobacterial nucleic acid detection (page 20)

Discontinued schemes

- 5042 Gram stain, blood culture, methods with carbon*
- 2261 Haemoglobin A1c [ERL]
- 2411 Therapeutic drugs + hydroxycarbazepine

*) Participants of product 5042 should order product 5041 Gram stain, blood culture.

Change in product codes

Clinical cytology scheme has divided to three products.

- 6700 Gynaecological cytology (smear), virtual microscopy (page 26)
- 6701 Gynaecological cytology (liquid based), virtual microscopy (page 26)
- 6702 Non-gynaecological cytology, virtual microscopy (page 26)

Changes in delivery schedule

- 2132 C-reactive protein (CRP), quantitative methods (FEB, APR, JUN, SEP, NOV)
- 2751 Faecal calprotectin (FEB, MAY, AUG, NOV)
- 5678 Hepatitis C virus, nucleic acid detection (MAY, OCT)

- 5680 HIV, nucleic acid detection (MAY, OCT)
- 5679 Hepatitis B virus, nucleic acid detection (MAY, OCT)
- 5430 Malaria, antigen detection (FEB, MAY, AUG, NOV)
- 2520 Bile acids (MAR, NOV)
- 6542 Histopathology, virtual microscopy (MAR, NOV)
- 6700 Gynaecological cytology (smear), virtual microscopy (MAR)
- 6701 Gynaecological cytology (liquid based), virtual microscopy (APR)
- 6702 Non-gynaecological cytology, virtual microscopy (NOV)
- 66005 Immunohistochemical staining methods, limited selection of antibodies (MAY, SEP, DEC)
- 6600 Immunohistochemical staining methods (MAY, SEP, DEC)
- 5200 *Clostridium difficile* (FEB, MAY, AUG, NOV)
- 5071 Surveillance culture for multidrug resistant bacteria, MRSA (FEB, JUN, SEP, NOV)
- 5072 Surveillance culture for multidrug resistant bacteria, VRE (FEB, JUN, SEP, NOV)
- 5073 Surveillance culture for multidrug resistant bacteria, gramnegative rods (FEB, JUN, SEP, NOV)

Changes in specimens and parameters

- 3160 Urine quantitative chemistry – **New parameter: Cortisol-free**
- 2050 Serum B and C (2-level) – **New parameter: Lipase**
- 2540 Myocardial markers – **Discontinued analytes: CK and LD**
- 2410 Therapeutic drugs – **New specimen volume: 5 mL**
- 5950 Bordetella pertussis, antibodies – **Specimen volume: >0.3 mL**
- 5594 Streptococcus, group B (GBS), detection – **New parameter: Nucleic acid detection**

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Sales and customer service:

+358 9 8566 8200
info@labquality.fi
www.labquality.fi