

VEQ 360°



Una risorsa indispensabile per confermare e migliorare la qualità di tutto il tuo laboratorio.

Catalogo 2025
LABQUALITY
per i laboratori di biochimica clinica

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

Clinical chemistry

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

Clinical chemistry » Allergology

2675 Allergen component [UK NEQAS]

1

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

Specimens: 2 liquid human serum samples for allergen component tests.
Examinations: Allergen component test which covers recombinant allergens as well as the ISAC system.

Notes: Organised in co-operation with UK NEQAS. Participation in all rounds is required. Register orders before the end of October. Limited availability.

2681 Allergy in vitro diagnostics [SKML]

1

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

Specimens: 3 liquid human serum samples for specific IgEs with 3 allergens, 2 mixes and total IgE in each and some allergen components, 0.5 mL.
Examinations: Total IgE, specific IgEs, allergen mixes and allergen components.

Notes: Organised in co-operation with SKML. Participation in all rounds is required. Register orders before the end of October. All samples are distributed in February.

2670 Allergy in vitro diagnostics [UK NEQAS]

1

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

Specimens: 2 liquid human serum samples for specific IgEs with 4 allergens in each specimen, 0.5 mL each and 1 serum specimen for total IgE, 0.5 mL.
Examinations: Total IgE and specific IgEs.

Notes: Organised in co-operation with UK NEQAS. Participation in all rounds is required. Register orders before the end of October. Limited availability.

2680 Eosinophil cationic protein

1

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

Specimens: 1 lyophilised human serum sample, 0.3 mL.
Examinations: ECP.

Notes: Results are processed in connection with total IgE results of scheme 2670.

2685 Tryptase [UK NEQAS]

1

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

Specimens: 2 liquid human serum samples.
Examinations: Tryptase.

Notes: Organised in co-operation with UK NEQAS. Participation in all rounds is required. Register orders before the end of October. Limited availability.

Clinical chemistry » Basic chemistry

2100 Basic chemistry, POCT analysers

3

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

Specimens: 2 human serum samples, 1 mL.
Examinations: Alanine aminotransferase, albumin, alkaline phosphatase, amylase (total and pancreatic), aspartate aminotransferase, calcium, chloride, HDL cholesterol, cholesterol, creatine kinase, creatinine, gamma glutamyltransferase, glucose, lactate dehydrogenase, magnesium, phosphorus, potassium, sodium, total protein, triglycerides, urea, uric acid.

Notes: For clinical laboratories and POCT sites. Only for dry chemistry analysers. If you are not sure whether your device is a POCT meter or an analyser, please contact our customer service.

2730 Erythrocyte sedimentation rate	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 1 artificial blood cell suspension, ~ 4 mL.

Notes: Not suitable for Algor iSed.

Examinations: ESR.

2731 Erythrocyte sedimentation rate: Alifax-analyser; Greiner tube	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 3 test tubes containing synthetic latex solution, 3 mL.

Examinations: ESR.

2732 Erythrocyte sedimentation rate: Alifax-analyser; Sarstedt tube	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 3 test tubes containing synthetic latex solution, 3 mL.

Examinations: ESR.

2750 Faecal occult blood, qualitative	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 preparations that include human haemoglobin, 0.5 mL.

Notes: For clinical laboratories and POCT sites.

Examinations: Qualitative detection of Hb in human faeces.

POCT

2749 Faecal occult blood, quantitative	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 liquid samples (March, Sept) and 2 artificial stool samples (June, Dec) including human haemoglobin.

Notes: The liquid samples assess the analytical process only. The artificial stool samples assess both the preanalytical and analytical processes. One test-specific sample collection kit (not provided) per EQA sample is needed for artificial stool samples. For clinical laboratories and POCT sites.

Examinations: Quantitative determination of Hb in human faeces (iFOB/FIT).

POCT

2114 Haemoglobin, 1-level sample, POCT	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 1 bovine sample, 1 mL.

Notes: Only for POCT devices. Not suitable for Diaspect, CompoLab, Hemocue 301 or Hemocue 801.

Examinations: Haemoglobin, pre-analytical case yearly, timing not specified.

POCT
EQA³

2115 Haemoglobin, 1-level sample, Hemocue 801 and HemoCue 301	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 1 bovine sample, 1 mL.

Notes: Only for HemoCue 801 and HemoCue 301.

Examinations: Haemoglobin, pre-analytical case yearly, timing not specified.

POCT
EQA³

2113 Haemoglobin, 3-level samples, cell counters and analysers	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 3 human whole blood control samples, 1 mL (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 analysers.

2112 Haemoglobin, 3-level samples, POCT	(3)	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 3 bovine or human samples, 1 mL (low, medium and high concentration).

Examinations: Haemoglobin linearity with three samples.

Notes: Only for POCT devices. Not suitable for Diaspect.

POCT

Clinical chemistry » Cardiac markers

1541 CRP, low concentration

3

1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 1 Human serum sample, 1 mL.

Examinations: CRP.

Notes: CRP, low concentration sample is included in product 2541 Myocardial markers and CRP.

2540 Myocardial markers

3

1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 Human serum samples, 1 mL.

Examinations: CK-MB mass, myoglobin, quantitative troponin I, quantitative troponin T. Not for CKMB activity!

Notes: Suits clinical laboratory analysers. See also scheme 2530 Troponin I and T, detection for POCT. If you are not sure whether your device is a POCT meter or an analyser, please contact Labquality customer service.

2541 Myocardial markers and CRP, low concentration

3

1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 Human serum samples for myocardial markers, 1 mL and one for CRP, 1 mL.

Examinations: CK-MB mass, myoglobin, quantitative troponin I, quantitative troponin T and CRP, low concentration. Not for CKMB activity!

Notes: Suits clinical laboratory analysers. See also scheme 2530 Troponin I and T, detection for POCT. If you are not sure whether your device is a POCT meter or an analyser, please contact Labquality customer service.

2690 Natriuretic peptides 1, B-type, NT-ProBNP

3

1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 liquid samples, 3 mL.

Examinations: NT-ProBNP.

Notes: Suits both clinical laboratories and POCT sites. Also suitable for Roche Cardiac Reader and cobas h232.

2691 Natriuretic peptides 2, B-type, BNP

3

1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 liquid samples, 3 mL.

Examinations: BNP.

Notes: For clinical laboratories and POCT sites.

2530 Troponin I and troponin T, detection, POCT

3

1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 fresh human serum samples or 2 liquid human samples, 1 mL.

Examinations: Detection of troponin I and troponin T.

Notes: Qualitative and quantitative results are processed. This scheme is only for POCT, scheme 2540 is for analysers. If you are not sure whether your device is a POCT meter or an analyser, please contact our customer service.

Clinical chemistry » Diabetes analysis

2570, 2580, 2590 Glucose meters

5

1	2	3	4	5	6	7	8	9	10	11	12
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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 sample of human origin or animal-based plasma sample, 1mL.

Examinations: Glucose, pre-analytical case yearly, timing not specified.

Notes: 5 results processed with one order if sample volume is sufficient and devices belong to the same product group.

1261 Haemoglobin A1c, liquid samples

3

1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 liquid blood samples, 0.5 mL.

Examinations: HbA1c.

Notes: The product is for laboratory analysers. 1263 is for POCT instruments. If you are not sure if your instrument is POCT or not, please contact our customer service.

1263 Haemoglobin A1c, liquid samples, POCT

3

1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 liquid blood samples, 0.5 mL.

Examinations: HbA1c.

Notes: Only for POCT devices. Not suitable for Afinion instruments.

2526 Ketones (beta-hydroxybutyrate)

3

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

Specimens: 2 human serum samples, 0.4 mL.**Examinations:** beta-hydroxybutyrate.**Notes:** For POCT sites and clinical laboratories. 3 results processed with one order if sample volume is sufficient.

POCT

Clinical chemistry » Endocrinology**2300, 2300S Hormones A: Basic analytes of hormone and immunochemistry**

3

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

Specimens: 2 human serum samples with differing concentrations, 3 mL each. Liquid serum sample (one level) included in Apr and Oct rounds. Pre- and/or post-analytical cases in part of the rounds.**Examinations:** Ferritin, folate, hCG (total, intact), T3, free T3, T4, free T4, TSH, vitamin B12, active vitamin B-12, pre- and/or post-analytical indicators.**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. Product 2300S does not include reporting from multiple analysers or methods.EQA³**1300 Hormones A, extra set of samples**

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

Specimens: 2 human serum samples, 3 mL.**Notes:** Only in connection with scheme 2300.**2301, 2301S Hormones B: Steroid and peptide hormones**

3

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

Specimens: 2 human serum samples with differing concentrations, 3 mL. Liquid serum sample (one level) included in Apr, Aug and Dec rounds. Pre- and/or postanalytical cases in part of the rounds.**Examinations:** Androstanedione, aldosterone, C-peptide, cortisol, DHEAS, estradiol, FSH, gastrin, growth hormone, IGF-1, insulin, LH, progesterone, 17-OH-progesterone, prolactin, SHBG, testosterone, free testosterone, TBG, pre- and/or post-analytical indicators.**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. Product 2301S does not include reporting from multiple analysers or methods.EQA³**1301 Hormones B, extra set of samples**

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

Specimens: 2 human serum samples, 3 mL.**Notes:** Only in connection with scheme 2301.**2250 Parathyroid hormone, intact**

3

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

Specimens: 2 lyophilised human serum samples, 3 mL.**Examinations:** PTH, intact.EQA³**2704 ACTH and cortisol**

3

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

Specimens: 2 lyophilised human serum samples, 3 mL.**Examinations:** Adrenocorticotrophic hormone (ACTH) and Cortisol.**2706 Salivary Cortisol**

3

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

Specimens: 2 liquid or lyophilised simulated salivary samples.**Examinations:** Salivary cortisol.**Clinical chemistry » General clinical chemistry, known concentration****1031 DayTrol, human serum**

1

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

Specimens: 1 lyophilised 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,

thyrotropin, thyroxine, thyroxine free, transferrin, transferrin receptor, triglycerides, urea, uric acid.

Notes: The same sample is analysed on a daily or a weekly basis. Monthly averages and CV% are compared with other participants. Minimum order quantity of 10 bottles per year. Monthly reporting is included.

Clinical chemistry » General clinical chemistry, unknown concentration

1072

General clinical chemistry, 1-level sample (Serum A)

(3)



Specimens: Lyophilised serum sample, 3 - 5 mL, samples are selected to cover a wide concentration range.

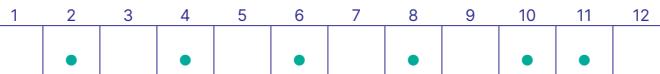
Examinations: Alanine aminotransferase, albumin, alkaline phosphatase, alpha-1-antitrypsin, alpha-1-glykoprotein, amylase, amylase (pancreatic), aspartate aminotransferase, bilirubin, calcium, calcium (ionized, actual), calcium (ionized, pH 7.4), chloride, cholesterol, cholesterol HDL, cholesterol LDL, cortisol, creatine phosphokinase, creatinine, ferritin, gamma-glutamyltransferase, glucose, haptoglobin, IgA, IgE, IgG, IgM, iron, lactate, lactate dehydrogenase, lithium, magnesium, oroso-mucoid, osmolality, phosphorus, potassium, protein, selenium, sodium, thyrotropin, thyroxine, thyroxine free, TIBC, transferrin, transferrin receptor, triglycerides, urea, uric acid.

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 analysers or methods.

2050

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

(3)



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

Examinations: Alanine aminotransferase, albumin, alpha-1-antitrypsin, alpha-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-iodo-thyronine, thyrotropin, thyroxine, free thyroxine, urea, uric acid.

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

EQ^{A₃}

Clinical chemistry » Special chemistry

2610

Acid-base status and electrolytes

(1)



Specimens: 3 buffered artificial samples, 2.5 mL.

Examinations: Chloride, creatinine, glucose, ionized calcium, lactate, pCO₂, pH, pO₂, potassium, sodium, urea, base excess, HCO₃.

Notes: Order one sample set for each analyser. For clinical laboratories and POCT sites.

2510 Alcohol in blood: Ethanol + methanol + isopropanol

(3)



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

(3)



Specimens: 1-level whole blood samples.

Examinations: Ethylene glycol.

2511 Alcohol in serum: Ethanol + methanol + isopropanol + acetone

(3)



Specimens: Ethanol: 2-level serum samples. Methanol, isopropanol and acetone: 1-level serum samples.

Examinations: Ethanol, methanol, isopropanol, acetone.

2105 Ammonium ion

(1)



Specimens: 2 serum based or buffered samples.

Examinations: Ammonium ion.

2517 Alcohol in serum: Ethylene glycol	3	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 1-level serum samples.

Examinations: Ethylene glycol.

2210 Angiotensin convertase (ACE)	3	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 1 liquid and 1 lyophilised human serum sample, 1 mL.

Examinations: ACE.

2520 Bile acids	3	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 pooled human serum samples, 0.5 mL.

Examinations: Bile acids.

2109 Bilirubin, conjugated	3	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 lyophilised or liquid samples.

Examinations: Total bilirubin, conjugated bilirubin.

2040 Bilirubin, neonatal	3	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 lyophilised or liquid samples.

Examinations: Bilirubin, neonatal.

8805 Cystatin C [DEKS]	5	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 human plasma samples with reference target values, 0.75 mL.
Examinations: P-Cystatin C, P-Creatinine, P-eGFR.

Notes: Organised in co-operation with DEKS. Participation in all rounds is required. Register orders before the end of December.

2754 Faecal elastase	3	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 lyophilised faecal specimens, 0.5 mL.

Examinations: Elastase.

2150 Haemoxymeters	1	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 liquid (1.2 mL) samples.

Notes: Order one sample set for each analyser.

Examinations: FO2Hb, FCOHb, FMETHb, ctHb, sO2.

8816 Homocysteine [DEKS]	1	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 plasma samples 1 mL each.

Notes: Organised in co-operation with DEKS. Participation in all rounds is required. All samples are distributed in February. Register orders before the end of December.

2755 Holotranscobalamin (HoloTC) and Methylmalonic Acid	1	1	2	3	4	5	6	7	8	9	10	11	12
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Specimens: 2 lyophilised serum sample.

Examinations: Holotranscobalamin (HoloTC), Methylmalonic Acid

8853 Iohexol [EQUALIS]	1	1 2 3 4 5 6 7 8 9 10 11 12	Four rounds per year
Specimens: Two plasma samples. Examinations: P—Iohexol, Pt—GFR (Iohexol) absolute, Pt—GFR (Iohexol) relative.	Notes: Organised in co-operation with Equalis. Participation in all rounds is required. Register orders before the end of December.		

8815 Methyl malonic acid [DEKS]	1	1 2 3 4 5 6 7 8 9 10 11 12	Four rounds per year
Specimens: 2 serum samples 1,5 mL each. Examinations: P-Methylmalonat.	Notes: Organised in co-operation with DEKS. Participation in all rounds is required. All samples are distributed in February. Register orders before the end of December.		

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

8854 Phosphatidyl ethanol in blood [EQUALIS]	1	1 2 3 4 5 6 7 8 9 10 11 12	Four rounds per year
Specimens: Three EDTA blood samples. Examinations: B -PEth.	Notes: Organised in co-operation with Equalis. Participation in all rounds is required. Register orders before the end of December. Available only in the EU.		

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

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

2410 Therapeutic drugs	3	1 2 3 4 5 6 7 8 9 10 11 12	
Specimens: 2 liquid or lyophilised human serum samples, 5 mL. 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.			

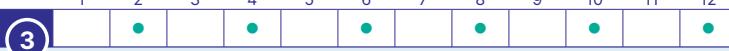
2480 Vitamin A, E and D metabolites	3	1 2 3 4 5 6 7 8 9 10 11 12	
Specimens: 2 liquid human serum samples, 1 mL. Pre- and/or post-analytical cases in part of the rounds.	Examinations: Vitamin A, vitamin E, 25(OH)D-vitamin, 1,25(OH)2-D-vitamin, pre- and/or post-analytical indicators. Notes: Target values for 25(OH)D vitamin metabolite are provided.		

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

2525 5-hydroxyindoleacetic Acid (5-HIAA)	3	1 2 3 4 5 6 7 8 9 10 11 12	
Specimens: 2 serum samples.	Examinations: 5-HIAA.		

Clinical chemistry » Specific proteins

2020 C-reactive protein (CRP) for analysers



Specimens: 2 liquid human serum or plasma samples, 1 mL.

Examinations: CRP.

Notes: Scheme is designed only for clinical chemistry analysers. Order scheme 2132 for POCT CRP meters. If you are not sure whether your device is a POCT meter or an analyser, please contact Labquality customer service.

2132 C-reactive protein (CRP), POCT



Specimens: 2 liquid human plasma samples, 1 mL.

Examinations: CRP.

Notes: Only for quantitative POCT CRP meters. Not suitable for LumiraDx. If you are not sure whether your device is a POCT meter or an analyser, please contact our customer service.

2140 CDT, carbohydrate deficient transferrin [EQUALIS]

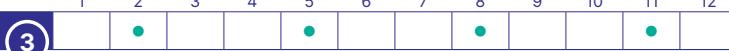


Specimens: 2 human plasma samples, varying concentration of CDT.

Examinations: CDT.

Notes: Organised in co-operation with Equalis. Participation in all rounds is required. Register orders before the end of December. Available only in the EU.

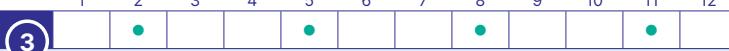
2751 Faecal calprotectin



Specimens: 2 lyophilised faecal specimens, 0.5 mL.

Examinations: Calprotectin.

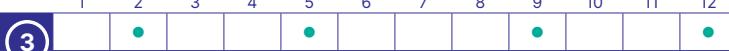
2281 Interleukin-6



Specimens: 2 lyophilised samples.

Examinations: IL-6.

2200 Lipids and lipoproteins



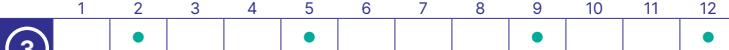
Specimens: 2 fresh human serum samples, 0.5–1 mL. Pre- and/or post-analytical cases in part of the rounds.

Examinations: Cholesterol, HDL cholesterol, LDL cholesterol, lipoprotein

apo A1, lipoprotein apo A2, lipoprotein apo B triglycerides, pre- and/or post-analytical indicators.

Notes: Separate round for Lp(a), see scheme 2202.

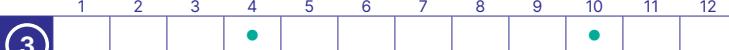
2202 Lipoprotein a



Specimens: 1 liquid or lyophilised human serum preparation.

Examinations: Lp(a).

2280 Procalcitonin

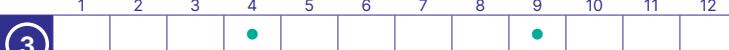


Specimens: 2 human serum-based lyophilised samples.

Examinations: Procalcitonin.

Notes: Only for quantitative methods.

2160 Proteins in cerebrospinal fluid



Specimens: 1 cerebrospinal fluid sample 1–3 mL and 1 human serum sample, 1 mL.

Examinations: Cerebrospinal fluid: Albumin, IgG, total protein, IgG index. Serum: Albumin, IgG.

2240 Proteins, electrophoresis



Specimens: 2 liquid or lyophilised human serum samples, 1 mL. Pre- and/or post-analytical cases in part of the rounds.

Examinations: Electrophoresis, contains immunofixation, pre- and/or post-analytical indicators.

POCT

EQA³

EQA³

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

Clinical chemistry » Tumour markers

2703 Anti-Müllerian hormone	(3)	1 2 3 4 5 6 7 8 9 10 11 12
Specimens: 2 liquid human serum samples, 1 mL.	Examinations: Anti-Müllerian hormone.	

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

2700, 2700S Tumour markers	(3)	1 2 3 4 5 6 7 8 9 10 11 12
Specimens: 2 liquid human serum samples, 2 mL. Examinations: AFP, CA 125, CA 153, CA 199, CEA, ferritin, hCG (total, intact, beta-subunit), PSA, PSA free, PSA free/total index, TG, TG antibodies, beta-2-microglobulin, NSE, HE4.	Notes: 2700S is a limited version of the scheme available for laboratories performing testing of 1-5 analytes. Product 2700S does not include reporting from multiple analysers or methods.	

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

2707 Maternal serum screening	(3)	1 2 3 4 5 6 7 8 9 10 11 12
Specimens: 2 lyophilised samples.	Examinations: AFP, b-hCG, inhibin A, PAPP-A, total hCG, unconjugated estriol.	

Clinical chemistry » Urine analysis

8855 Alcohol biomarkers in urine [EQUALIS]	(1)	1 2 3 4 5 6 7 8 9 10 11 12
Specimens: Urine sample. Examinations: U-Ethyl glucuronide (EtG), U-Ethyl sulphate (EtS).	Notes: Organised in co-operation with Equalis. Participation in all rounds is required. Register orders before the end of December.	

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

3300 Drug of abuse screening in urine	(3)	1 2 3 4 5 6 7 8 9 10 11 12
Specimens: 2 human-based urine samples, 5 mL. Examinations: Alpha-PVP, Amphetamine, Barbiturates, Benzodiazepines, Buprenorphine, Cannabinoids, Carbamazepine, Cocaine +metabolites, Codeine, Dextropropoxyphene, EDDP, Fencyclidine, Fentanyl, Gamma-hydroxybutyrate (GHB), Ketamine, LSD, MDMA, MDPV, Metamphetamine,	Notes: For clinical laboratories and POCT sites. Expert laboratory confirmatory results are provided. Results are reported as positive or negative.	

3270 Pregnancy test

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

3

Specimens: 2 fresh urine samples, 1 mL.**Notes:** For clinical laboratories and POCT sites.**Examinations:** Qualitative hCG.

POCT

3170 Urine bacterial screening with automated analysers

3

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

Specimens: 1 liquid sample and lyophilised synthetic urine sample containing bacteria.**Examinations:** Bacterial, erythrocytes and leukocytes counting.**3200** Urine, identification of cells and other particles

1

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

Specimens: 4 digital images.**Examinations:** Identification of cells and other particles.**3160** Urine quantitative chemistry

3

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

Specimens: 1 liquid urine, 10 mL.**Examinations:** Albumin, amylase, calcium, chloride, cortisol-free, creatinine, glucose, inorganic phosphate, magnesium, osmolality, pH, potassium, protein, relative density, sodium, urea, uric acid.**3100** Urine strip test A

3

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

Specimens: 1 lyophilized urine sample with varying concentrations, 15 mL.**Notes:** For clinical laboratories and POCT sites. Water for dissolution available, see scheme 3101, should be ordered separately.**Examinations:** Glucose, ketone bodies, leukocytes, nitrite, pH, protein, blood (erythrocytes), relative density.

POCT

3102 Urine strip test A, (incl. Bilirubin & Urobilinogen)

3

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

Specimens: 1 lyophilized urine sample with varying concentrations, 15 mL.**Notes:** For clinical laboratories and POCT sites. Water for dissolution available, see scheme 3101, should be ordered separately.**Examinations:** Bilirubin, glucose, ketone bodies, leukocytes, nitrite, pH, protein, blood (erythrocytes), relative density, urobilinogen.

POCT

3101 Urine strip test A, 15 mL water for sample dissolution

3

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

Specimens: 15 mL, water for dissolution of samples of scheme 3100 and 3102.**Notes:** Only in connection with scheme 3100 and 3102.**3130** Urine strip test B, particle count and estimation of density

3

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

Specimens: 1 lyophilised urine, 15 mL.**Notes:** Also suitable for automatic analysers (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.**Examinations:** Particle count: erythrocytes and leukocytes. Estimation of density: creatinine, relative density, osmolality. Strip tests: glucose, ketone bodies, leukocytes, nitrite, pH, protein, blood (erythrocytes).**3131** Urine strip test B, 15 mL water for sample dissolution

3

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

Specimens: 15 mL water for dissolution of lyophilised samples of scheme 3130.**Notes:** Only in connection with scheme 3130.

Noklus Patient Median (NOPAM)

From June 1, 2024, Noklus will start the operation of NOPAM, a more user-friendly and improved version of the "percentile and flagger" program. Participants currently enrolled in the "percentile and flagger" program will be automatically transferred to NOPAM. From the same date, new participants can register.

What is NOPAM?

NOPAM is a program for internal and external quality assessment based on patient results, offered by Noklus to medical laboratories worldwide. Laboratories participating in the program regularly send a standardized report containing the patient median and percentage of patient results above and below the laboratory's own reference limits. The report also includes the number of results used to calculate the various parameters. Results are calculated per instrument. Preferably, data is calculated from patient results for the out-patient population. It is possible to participate only with patient medians. Upon initial registration and whenever changes occur, the following information is recorded; contact information for the laboratory, country, patient population, sample material, sampling conditions, methods, instrument information (supplier, model, and type) and factors for factorization of analytes. The reagent lot number can either be included in the results report or entered manually by the laboratory. If the lot number is registered manually, it is sufficient to register when the lot changes.

How to use the results?

NOPAM can be a valuable tool to monitor analytical quality. The program can reveal important differences between different instrument types and methods, as well as monitor the progress of harmonization and standardization efforts. Participants can compare their own results with other comparable groups and compare different method groups. They can also compare their own results for all their own instruments, in case a bias is introduced, the laboratories monitor how the proportion of results above and below reference limits shifts. Results are presented in box plots or as a trend line with time on the x-axis.

What do you have to do to participate in NOPAM?

Laboratories that wish to participate must contact Noklus, who will send a protocol describing how results are reported.

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Analytes included in the program

25-Hydroxyvitamin D	CRP	IgM	PTH
Albumin	Ferritin	K	RBC
ALP	Folate (B9)	LDL-cholesterol	Triglycerides
ALT	FT4	LDH	TSH
AST	GGT	MCV	Urea
Bilirubin (total)	Glucose	Mg	Uric acid
BUN	Hb	Na	Vitamin B12
Ca	HbA1c	Phosphate	WBC
Cholesterol	HDL-cholesterol	PLT	
Cl	IgA	Protein (total)	
Creatinine	IgG	PSA	

EQA services for POCT sites

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

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

Clinical chemistry

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

Preanalytics

- 7801 Preanalytics, urine and blood sample collection
- 7804 Preanalytics, POCT in chemistry

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Quality Makers**