

# VEQ 360°



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

Catalogo 2026  
**LABQUALITY**  
per i laboratori di biochimica clinica



# Updates for 2026

## New schemes and products

2708	Human Erythropoietin and Thrombopoietin
2709	Phosphatidyl ethanol in blood (PEth)
2755	Biochemical indicators of vitamin B12 deficiency (HoloTC, MMA, Homocysteine)
2756	Immunosuppressants
5043	Gram stain, vaginal fluid
5241	<i>Bordetella pertussis/parapertussis</i> , nucleic acid detection
5305	Bacterial vaginosis and vaginitis multiplex, nucleic acid detection
5688	West Nile virus, antibodies
5689	HCV RNA from capillary blood, POCT
6800	HPV-related head and neck cancer control

## Changes in distribution schedule

2510-2511,	
2516-2517	Alcohol determinations (4 rounds/year)
2754	Faecal elastase (4 rounds/year)
2280	Procalcitonin (4 rounds/year)
3170	Urine bacterial screening with automated analysers (4 rounds/year)

## Discontinued schemes and products

4156	Reticulocyte count, Mindray
4190	White blood cell differential count: HemoCue, POCT
4231	Leucocyte differential count, 5-part, automated: Cell-Dyn
4239	Leucocyte differential count, 5-part, automated: Mythic
5470	Parasites in blood, Giemsa stain, virtual microscopy
5471	Parasites in blood, MGG stain, virtual microscopy
5593	<i>Streptococcus pyogenes</i> (Group A), nucleic acid detection in pharyngeal sample
5636	Zika virus, antibodies
5677	SARS-CoV-2, antibodies

## Changes in scope, specimens or parameters

5191	Faecal bacterial pathogens multiplex, nucleic acid detection. Examinations: <i>Clostridioides difficile</i> added.
5254	<i>Mycoplasma genitalium</i> , drug resistance, nucleic acid detection. Examinations: A fluoroquinolone (moxifloxacin) resistant sample will be included in some rounds.
5473	<i>Trichomonas vaginalis</i> , detection. Specimens: 2 simulated samples.
5595	<i>Streptococcus pyogenes</i> (Group A), detection in pharyngeal sample. Examinations: Strep A NAT added.
5620	<i>Chlamydia pneumoniae</i> , antibodies. Specimens: 2 samples/round.

## 2026 Planned pilot schemes

Pilot studies are EQA schemes under development. Information about pilot studies and schedules are updated on our website: <https://www.aurevia.com/eqas/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

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2675 Allergen component (UK NEQAS)</b>	1	•		•		•		•		•	•	
<b>Specimens:</b> 2 liquid human serum samples for allergen component tests. <b>Examinations:</b> Allergen component test which covers recombinant allergens as well as the ISAC system.												
<b>Notes:</b> Organised in co-operation with UK NEQAS. Participation in all rounds is required. Register orders before the end of October. Limited availability.												
	1	2	3	4	5	6	7	8	9	10	11	12
<b>2681 Allergy in vitro diagnostics (SKML)</b>	1	•			•			•		•		
<b>Specimens:</b> 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. <b>Examinations:</b> Total IgE, specific IgEs, allergen mixes and allergen components.												
<b>Notes:</b> 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.												
	1	2	3	4	5	6	7	8	9	10	11	12
<b>2670 Allergy in vitro diagnostics (UK NEQAS &amp; Labquality)</b>	1	•		•		•		•		•	•	
<b>Specimens:</b> 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. <b>Examinations:</b> Total IgE and specific IgEs.												
<b>Notes:</b> Organised in cooperation with UK NEQAS. Participation in all rounds is required. Register orders before the end of October. Limited availability.												
	1	2	3	4	5	6	7	8	9	10	11	12
<b>2680 Eosinophil cationic protein</b>	1	•		•		•		•		•	•	
<b>Specimens:</b> 1 lyophilised human serum sample, 0.3 mL. <b>Examinations:</b> ECP.												
<b>Notes:</b> Results are processed in connection with total IgE results of scheme 2670.												
	1	2	3	4	5	6	7	8	9	10	11	12
<b>2685 Tryptase (UK NEQAS)</b>	1	•		•	•		•		•		•	
<b>Specimens:</b> 2 liquid human serum samples. <b>Examinations:</b> Tryptase.												
<b>Notes:</b> 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

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2100 Basic chemistry, POCT analysers</b>	3	•			•			•			•	
<b>Specimens:</b> 2 human serum samples, 1 mL. <b>Examinations:</b> 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.												
<b>Notes:</b> 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.												
	1	2	3	4	5	6	7	8	9	10	11	12
<b>2730 Erythrocyte sedimentation rate</b>	3		•		•				•		•	
<b>Specimens:</b> 1 artificial blood cell suspension, ~ 4 mL. <b>Examinations:</b> ESR.												
<b>Notes:</b> Not suitable for Algor iSed and Mindray.												

2731	Erythrocyte sedimentation rate: Alifax-analyser; Greiner tube	3	1	2	3	4	5	6	7	8	9	10	11	12
					•		•				•		•	
Specimens: 3 test tubes containing synthetic latex solution, 3 mL. Examinations: ESR.			Notes: Only for Alifax analysers.											

2732	Erythrocyte sedimentation rate: Alifax-analyser; Sarstedt tube	3	1	2	3	4	5	6	7	8	9	10	11	12
					•		•				•		•	
Specimens: 3 test tubes containing synthetic latex solution, 3 mL. Examinations: ESR.			Notes: Only for Alifax analysers.											

2750	Faecal occult blood, qualitative	3	1	2	3	4	5	6	7	8	9	10	11	12
			•				•					•		•
Specimens: 2 preparations that include human haemoglobin, 0.5 mL. Examinations: Qualitative detection of Hb in human faeces.			Notes: For clinical laboratories and POCT sites.											

2749	Faecal occult blood, quantitative	3	1	2	3	4	5	6	7	8	9	10	11	12
					•			•				•		
Specimens: 2 liquid samples (March, Sept) and 2 artificial stool samples (June, Dec) including human haemoglobin. Examinations: Quantitative determination of Hb in human faeces (iFOB/FIT).			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.											

2115	Haemoglobin, 1-level Hemocue 801 and HemoCue 301	3	1	2	3	4	5	6	7	8	9	10	11	12
					•		•				•		•	
Specimens: 1 bovine sample, 1 mL. Examinations: Haemoglobin, pre-analytical case yearly, timing not specified.			Notes: Only for HemoCue 801 and HemoCue 301.											

2114	Haemoglobin, 1-level POC analysers	3	1	2	3	4	5	6	7	8	9	10	11	12
					•		•				•		•	
Specimens: 1 bovine sample, 1 mL. Examinations: Haemoglobin, pre-analytical case yearly, timing not specified.			Notes: Only for POCT devices. Not suitable for Diaspect, CompoLab, Hemocue 301 or Hemocue 801.											

2113	Haemoglobin, 3-level samples, cell counters and analysers	3	1	2	3	4	5	6	7	8	9	10	11	12
												•		
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
												•		
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.											

## Clinical chemistry » Cardiac markers

1541 CRP, low concentration	3	1	2	3	4	5	6	7	8	9	10	11	12	
			●		●		●			●		●		
		Specimens: 1 Human serum sample, 1 mL.						Notes: CRP, low concentration sample is included in product 2541 Myocardial markers and CRP.						
		Examinations: CRP.												

## 2540 Myocardial markers

3

**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 our customer service.

## 2541 Myocardial markers and CRP, low concentration

3

**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 our customer service.

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

3

**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

**Specimens:** 2 liquid samples, 3 mL.

**Examinations:** BNP.

**Notes:** For clinical laboratories and POCT sites.

## 2530 Troponin I and troponin T, detection, POCT

3

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

**Examinations:** Detection of troponin I and troponin T.

**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, POCT

5

**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, plasma or serum sample of human origin or animal-based plasma sample, 1 mL

**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

**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. Not suitable for Afinion instruments.

## 1263 Haemoglobin A1c, liquid samples, POCT

3

**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

**Specimens:** 2 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.

# Clinical chemistry » Endocrinology

2300, Hormones A: Basic analytes of hormone and 2300s immunochemistry				③	1	2	3	4	5	6	7	8	9	10	11	12	EQA <sup>3</sup>
					•			•	•	•		•		•	•	•	
<p><b>Specimens:</b> 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.</p> <p><b>Examinations:</b> Ferritin, folate, hCG (total, intact), T<sub>3</sub>, free T<sub>3</sub>, T<sub>4</sub>, free T<sub>4</sub>, TSH, vitamin B12, active vitamin B-12, pre- and/or post-analytical indicators.</p>					<p><b>Notes:</b> 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.</p>												

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

		1	2	3	4	5	6	7	8	9	10	11	12	EQA <sup>3</sup>
2301, 2301s	Hormones B: Steroid and peptide hormones		●		●		●		●		●		●	
<b>Specimens:</b> 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.		<b>Notes:</b> 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.												
<b>Examinations:</b> 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, pre- and/or post-analytical indicators.														

	1	2	3	4	5	6	7	8	9	10	11	12
<b>1301 Hormones B, extra set of samples</b> ③		•		•		•		•		•		•
<b>Specimens:</b> 2 human serum samples, 3 mL.												
<b>Notes:</b> Only in connection with scheme 2301.												

	1	2	3	4	5	6	7	8	9	10	11	12	
<b>2250 Parathyroid hormone</b>			●							●			EQA <sup>3</sup>
<b>Specimens:</b> 2 lyophilised human serum samples, 3 mL.													
<b>Examinations:</b> PTH, intact.													

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2704 ACTH and cortisol</b> ③						•					•	
<b>Specimens:</b> 2 lyophilised human serum samples, 3 mL.												
<b>Examinations:</b> Adrenocorticotrophic hormone (ACTH) and Cortisol.												

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2706 Salivary Cortisol</b> ③			•						•			
<b>Specimens:</b> 2 liquid or lyophilised simulated salivary samples.												
<b>Examinations:</b> Salivary cortisol.												

				1	2	3	4	5	6	7	8	9	10	11	12	NEW
2708 Human Erythropoietin and Thrombopoietin				3												
Specimens: 2 lyophilised human serum samples, 1 mL.																
Examinations: Erythropoietin and thrombopoietin.																

	1	2	3	4	5	6	7	8	9	10	11	12	NEW
2756 Immunosuppressants		●			●			●			●		
Specimens: 2 lyophilised human whole blood samples, 2 mL.													
Examinations: Ciclosporin, tacrolimus, sirolimus, everolimus.													



## Clinical chemistry » General clinical chemistry, known concentration

	1	2	3	4	5	6	7	8	9	10	11	12
<b>1031 DayTrol, human serum</b>	●	●	●	●	●	●	●	●	●	●	●	●
<p><b>Specimens:</b> 1 lyophilised human serum sample, 5 mL.</p> <p><b>Examinations:</b> 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.</p> <p><b>Notes:</b> The same sample is analysed on a daily or a weekly basis. Monthly averages and CV%<i>s</i> are compared with other participants. Minimum order quantity of 10 bottles per year. Monthly reporting is included.</p>												

## Clinical chemistry » General clinical chemistry, unknown concentration

	1	2	3	4	5	6	7	8	9	10	11	12
<b>1072, General clinical chemistry, 1-level sample 1072S (Serum A)</b>	●	●	●	●	●	●	●	●	●	●	●	●
<p><b>Specimens:</b> Lyophilised serum sample, 3 - 5 mL, samples are selected to cover a wide concentration range.</p> <p><b>Examinations:</b> 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, orosomucoid, osmolality, phosphorus, potassium, protein, selenium, sodium, thyreotropin, thyroxine, thyroxine free, TIBC, transferrin, transferrin receptor, triglycerides, urea, uric acid.</p> <p><b>Notes:</b> 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.</p>												

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2050 General clinical chemistry, 2-level sera (serum B and C)</b>		●		●		●		●		●	●	
<p><b>Specimens:</b> 2 liquid human serum samples covering a wide concentration range, 3-5 mL.</p> <p><b>Examinations:</b> Alanine aminotransferase, albumin, alfa-1-antitrypsine, 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.</p> <p><b>Notes:</b> Comparison of two different concentration ranges simultaneously. Reference method values available occasionally for some of the analytes.</p>												

## Clinical chemistry » Special chemistry

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2610 Acid-base status and electrolytes</b>		●		●				●		●		
<p><b>Specimens:</b> 3 buffered artificial samples, 2.5 mL.</p> <p><b>Examinations:</b> Chloride, creatinine, glucose, ionized calcium, lactate, pCO<sub>2</sub>, pH, pO<sub>2</sub>, potassium, sodium, urea, base excess, HCO<sub>3</sub>.</p> <p><b>Notes:</b> Order one sample set for each analyser. For clinical laboratories and POCT sites.</p>												
	1	2	3	4	5	6	7	8	9	10	11	12
<b>2510 Alcohol in blood: Ethanol + methanol + isopropanol</b>			●		●				●		●	
<p><b>Specimens:</b> Ethanol: 2-level whole blood samples. Methanol and isopropanol: 1-level whole blood samples.</p> <p><b>Examinations:</b> Ethanol, methanol, isopropanol.</p>												

2516 Alcohol in blood: Ethylene glycol in whole blood	3	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 + acetone in serum	3	1	2	3	4	5	6	7	8	9	10	11	12
				•		•					•		•
Specimens: Ethanol: 2-level serum samples. Methanol, isopropanol and acetone: 1-level serum samples.													
Examinations: Ethanol, methanol, isopropanol, acetone.													

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

2105 Ammonium ion	1	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)	3	1	2	3	4	5	6	7	8	9	10	11	12
						•							
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
				•									•
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
			•		•					•		•	
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
			•		•		•			•		•	
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
		Two rounds per year.											
Specimens: 2 human plasma samples with reference target values, 0.75 mL.													
Notes: Organised in co-operation with DEKS. Participation in all rounds is required. Register orders before the end of December.													
Examinations: P-Cystatin C, P-Creatinine, P-eGFR.													

2754 Faecal elastase	3	1	2	3	4	5	6	7	8	9	10	11	12
				•		•					•		•
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
		•						•			

**Specimens:** 2 liquid (1.2 mL) samples.**Examinations:** FO<sub>2</sub>Hb, FCOHb, FMETHb, ctHb, sO<sub>2</sub>.**Notes:** Order one sample set for each analyser.**8816 Homocysteine (DEKS)****1**

1	2	3	4	5	6	7	8	9	10	11	12
Four rounds per year.											

**Specimens:** 2 plasma samples 1 mL each.**Examinations:** P-Homocysteine.**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.**NEW****2755 Biochemical indicators of vitamin B12 deficiency (HoloTC, MMA, Homocysteine)****3**

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

**Specimens:** 2 lyophilised serum samples, 2 mL.**Examinations:** Holotranscobalamin (HoloTC), Methylmalonic Acid (MMA), Homocysteine.**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 cooperation with Equalis. Participation in all rounds is required. Register orders before the end of December.**8815 Methylmalonic 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:** S-Methylmalonat.**Notes:** Organised in cooperation 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 May-Grunwald-Giemsa-stained samples.**Examinations:** Nasal cells.**NEW****2709 Phosphatidyl ethanol in blood (PEth)****3**

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

**Specimens:** 3 whole blood samples.**Examinations:** Phosphatidyl ethanol (PEth) 16:o/18:1**2652 Sputum cells****1**

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

**Specimens:** 4 digital images of May-Grunwald-Giemsa-stained samples.**Examinations:** Sputum cells.**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.

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

EQA<sup>3</sup>

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2480 Vitamin A, E and D metabolites</b>	3											
<b>Specimens:</b> 2 liquid serum samples, 0.5 - 1 mL. Pre- and/or post-analytical cases in part of the rounds. <b>Examinations:</b> Vitamin A, vitamin E, 25(OH)D-vitamin, 1,25(OH) <sub>2</sub> -D-vitamin, pre- and/or post-analytical indicators. <b>Notes:</b> Target values for 25(OH)D vitamin metabolite are provided.												

EQA<sup>3</sup>

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

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

## Clinical chemistry » Specific proteins

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2020 C-reactive protein (CRP) for analysers</b>	3											
<b>Specimens:</b> 2 plasma or serum samples, 1 mL. <b>Examinations:</b> CRP. <b>Notes:</b> 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 our customer service.												

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2132 C-reactive protein (CRP), POCT</b>	3											
<b>Specimens:</b> 2 serum samples, 1 mL. <b>Examinations:</b> CRP. <b>Notes:</b> 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.												

POCT

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2140 CDT, carbohydrate deficient transferrin (EQUALIS)</b>	1											
<b>Specimens:</b> 2 human plasma samples, varying concentration of CDT. <b>Examinations:</b> CDT. <b>Notes:</b> Organised in co-operation with Equalis. Participation in all rounds is required. Register orders before the end of December. Available only in the EU.												

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2751 Faecal calprotectin</b>	3											
<b>Specimens:</b> 2 lyophilised faecal specimens, 0.5 mL. <b>Examinations:</b> Calprotectin.												

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2281 Interleukin-6 (IL-6)</b>	3											
<b>Specimens:</b> 2 lyophilised samples. <b>Examinations:</b> IL-6.												

EQA <sup>3</sup>	2200 Lipids and lipoproteins	3	1	2	3	4	5	6	7	8	9	10	11	12
				●			●				●			●
			<b>Specimens:</b> 2 fresh human serum samples, 0.5–1 mL. Pre- and/or postanalytical cases in part of the rounds.											
			<b>Examinations:</b> Cholesterol, HDL cholesterol, LDL cholesterol, Apolipoprotein A1, Apolipoprotein A2, Apolipoprotein B, triglycerides, pre- and/or postanalytical indicators.											
			<b>Notes:</b> Separate round for Lp(a), see scheme 2202.											

2202 Lipoprotein a	3	1	2	3	4	5	6	7	8	9	10	11	12
			•			•				•			•
		<b>Specimens:</b> 1 liquid or lyophilised human serum preparation.											
		<b>Examinations:</b> Lp(a).											

2280 Procalcitonin		1	2	3	4	5	6	7	8	9	10	11	12
	3		●				●			●			●
	<b>Specimens:</b> 2 human serum-based lyophilised samples.												
	<b>Examinations:</b> Procalcitonin.												
	<b>Notes:</b> Only for quantitative methods.												

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

EQA <sup>3</sup>	2240 Proteins, electrophoresis	3	1	2	3	4	5	6	7	8	9	10	11	12
				●			●			●			●	
			<b>Specimens:</b> 2 liquid or lyophilised human serum samples, 1 mL Pre- and/or post-analytical cases in part of the rounds.											
			<b>Examinations:</b> Electrophoresis, contains immunofixation, pre- and/or postanalytical indicators.											

2230 Proteins, immunochemical determinations	3	1	2	3	4	5	6	7	8	9	10	11	12
		●			●		●			●			
		<b>Specimens:</b> 2 liquid human serum samples, 1 mL.											
		<b>Examinations:</b> 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 serum samples, 1 mL.											
		Examinations: PSA, complexed PSA, free PSA, free/total PSA ratio.											

2700, 2700S Tumour markers		1	2	3	4	5	6	7	8	9	10	11	12
3			•			•			•			•	
<b>Specimens:</b> 2 liquid human serum samples, 2 mL.													
<b>Examinations:</b> 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.													
<b>Notes:</b> 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.													

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

	1	2	3	4	5	6	7	8	9	10	11	12
<b>2707 Maternal screening</b>	3		●						●			
<b>Specimens:</b> 2 lyophilised samples. <b>Examinations:</b> AFP, b-hCG, inhibini A, PAPP-A, total hCG, unconjugated estriol.												

## Clinical chemistry » Urine analysis

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

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

	1	2	3	4	5	6	7	8	9	10	11	12
<b>3270 Pregnancy test</b>	3		●		●				●		●	
<b>Specimens:</b> 2 fresh urine samples, 1 mL. <b>Examinations:</b> Qualitative hCG. <b>Notes:</b> For clinical laboratories and POCT sites.												
												POCT

	1	2	3	4	5	6	7	8	9	10	11	12
<b>3300 Drug of abuse screening in urine</b>	3	●				●			●			
<b>Specimens:</b> 2 human-based urine samples, 5 mL. <b>Examinations:</b> Alpha-PVP, Amphetamine, Barbiturates, Benzodiazepines, Buprenorphine, Cannabinoids, Carbamazepine, Cocaine +metabolites, Codeine, Dextropropoxyphene, EDDP, Fencyclidine, Fentanyl, Gammahydroxybutyrate (GHB), Ketamine, LSD, MDMA, MDPV, Metamphetamine, Methaqualone, Methadone +metabolites, Methylphenidate, Morphine, Opiates, Oxycodone, Paracetamol, Pregabalin, Salicylate, Tricyclic- antidepressants, Tramadol. <b>Notes:</b> For clinical laboratories and POCT sites. Expert laboratory confirmatory results are provided. Results are reported as positive or negative.												
												POCT

	1	2	3	4	5	6	7	8	9	10	11	12
<b>3170 Urine bacterial screening with automated analysers</b>	3	●		●				●			●	
<b>Specimens:</b> 1 liquid sample and lyophilised synthetic urine sample containing bacteria. <b>Examinations:</b> Bacterial, erythrocytes and leukocytes counting.												

	1	2	3	4	5	6	7	8	9	10	11	12
<b>3200 Urine, identification of cells and other particles</b>	1	●			●			●			●	
<b>Specimens:</b> 4 digital images. <b>Examinations:</b> Identification of cells and other particles.												

	1	2	3	4	5	6	7	8	9	10	11	12
<b>3160 Urine quantitative chemistry</b>	3		●		●				●			●
<b>Specimens:</b> 1 liquid urine, 10 mL. <b>Examinations:</b> Albumin, amylase, calcium, chloride, cortisol-free, creatinine, glucose, inorganic phosphate, magnesium, osmolality, pH, potassium, protein, relative density, sodium, urea, uric acid.												



# Noklus Patient Median (NOPAM)

From 1 June, 2024, Noklus started the operation of NOPAM, a more user-friendly and improved version of the "percentile and flagger" program. Participants previously enrolled in the "percentile and flagger" program were automatically transferred to NOPAM. From the same date, new participants were able to 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 (Bg)	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	

# LABQUALITY



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