

ProBioQual
7 rue Antoine Lumière
69008 Lyon
France

Tel: +33 (0)4 72 65 34 90

Fax: +33 (0)4 78 85 97 77

Email: secretariat@probioqual.com

Website: <https://www.probioqual.com>



and FAEEQ

Lyon Center for the **Promotion of Biology and Quality Control**

A-R01-PBQ-ENR-093-01
Lyon, September 8th 2025

Association Law 1901 registered at the Rhône Prefecture with number W691066392

EXTERNAL QUALITY ASSESSMENT SCHEMES (EQAS) FOR MEDICAL BIOLOGY LABORATORIES



⚠ REGISTRATION ONLINE USING OUR WEBSITE

If you have difficulties when registering, please contact us or use the registration form enclosed, following all the instructions.

Deadline: Thursday October 9th 2025
After Thursday October 9th 2025, registration can't be guaranteed
(limited availability)

-  All information is available on our website: <https://www.probioqual.com>
-  **Email:** secretariat@probioqual.com
-  **Call us from Monday to Friday, 8.30 am to 5.30 pm - Paris time (CET)**

Dear Colleagues,

You will find attached our 2026 brochure. As you know, ProBioQual association is continuously committed to improving the services it offers to the medical biology laboratories. The major developments in our EQA (External Quality Assessment) schemes for 2026 will be presented below :

- First, our **new database** will allow to organize the different analytical sites belonging to the same medical laboratory group (LBM) as defined by French law, including people involved in EQA of each site, analyzers used, and the tests realized on each of them. This system will be operational for the 2026 schemes.
- We continue to adapt our schemes (number of surveys, number of samples, new analytes, etc.) to meet your requests, while ensuring the quality of our schemes maintained. We try to take into account the evolution of French medical laboratories and their ISO 15189 accreditation.
- Since mid-2025, we have proposed, free of charge, a **multi-analyzer comparison** either single-site or multi-site for medical laboratories participating in our EQA schemes, who request it and fulfill the required conditions. If you are interested, please contact our office at secretariat@probioqual.com.
- We continue to offer the direct transmission of your EQA results from your LIS (Laboratory Information System) to the ProBioQual database via **HPRIM**, but also via **HL7** and the **CDA** standard recommended by the French Digital Health Agency (ANS). This transmission is currently possible via HPRIM Santé and Apicrypt, and from January 2026 via **MSSANTE** (similar to the structured results of patient records in France).

Finally, perhaps the most important for you, we have limited the financial impact on our EQAS by not increasing the price of the majority of our EQA schemes for 2026. However, for few schemes, we have to apply an increase due to higher prices charged by our suppliers (control products, transport, etc.).

We hope you will continue to work with us in 2026.

Best regards,

Régine CARTIER and Bernard POGGI

QUALITY CONTROL AND ACCREDITATION ASSISTANCE

As a pioneer in the field of quality control for laboratory tests, ProBioQual has been offering external quality control schemes for over 50 years, allowing medical laboratories to fulfill the requirements of ISO 15189.

We offer more than 370 laboratory tests covering biochemistry, immunology, pharmacology - toxicology, haematology, haemostasis, serology, bacteriology and semen analysis:

- **67 external quality assessment (EQA) schemes (45 are accredited)**
- **2 Staff accreditation assistance (HABI) schemes**

The detailed alphabetical list of analytes monitored in our 2026 schemes is available on our website, on the homepage and under the 'EQA' tab / 'List of analytes' / 'List of monitored analytes'.

Our strengths:

- **ISO 17043 ACCREDITATION:** 45 accredited EQA schemes in the brochure, identified with the letter



- **EXPERIENCE & EXPERTISE:** More than 30 medical laboratory biologists, both volunteers or employees, who are experts in their fields, validate, interpret and comment on statistical reports. They are available to answer any questions you may have,
- **INDEPENDENCE:** ProBioQual has no commercial strategy and acts independently of any industrial societies or financial groups in the field of laboratory medicine,
- **PEER GROUPS:** In 2025, more than 1 329 analytical sites took part in our schemes,
- **RAPIDITY & REACTIVITY:** EQA statistical reports are sent by email within 2 weeks of the entry deadline,
- **ISO 9001 CERTIFICATION,**
- **Your EQA results can be sent directly and at no extra cost via HPRIM/ HL7/MSSANTE/CDA (see page 5).**

HOW THE SCHEMES WORK

Our detailed process can be found on our website <https://www.probioqual.com>

EQA - EXTERNAL QUALITY ASSESSMENT

The registration for control scheme is a complete package including:

- Registration certificate sent at the beginning of the scheme,
- Specific technical note to each EQA, giving all the necessary information for carrying out EQAs in addition to the general instructions applicable to all our schemes,
- Control materials samples (in one or more deliveries) and digital tools,
- Statistical processing with personalised assessment of your results: grade, z-score, histogram position, bias calculation, charts showing z-scores, grades and uncertainty measurement (long-term coefficient of variation and long-term bias),
- Interpretation and commentary by expert laboratory biologists. Annotated, personalised statistical EQA reports are sent to registered participants by email within 2 weeks of the entry deadline,
- The report comprises the annual summary of grades, z-scores and bias per analyte and the individual uncertainty measurement report,
- Participation certificate sent at the end of the scheme.

Unless otherwise indicated, the **registration** to one EQA scheme includes the assessment of **two analytical systems** (or two techniques) present on a **same geographical medical laboratory site**.

DIRECT REMOTE TRANSMISSION OF RESULTS USING HPRIM/HL7/MSSANTE/CDA

Saving time, avoiding data entry errors

The automatic transmission of EEQ results in **HPRIM or HL7** format is possible for most **analytes with quantitative results**.

⚠ This option does not apply to **qualitative** results (*e.g., serology, bacteriology, toxic substance identification, etc.*).

This service is **free** of charge, provided that your laboratory can transmit files via one of the following platforms:

- **MSSanté – New feature**
- **Bioserveur**
- **Apicrypt**

Exceptionally, files may also be sent **via unencrypted email**.

The HPRIM/HL7 formats **do not allow the encoding of techniques or devices used**. It is therefore the responsibility of the laboratory **to check the codes associated** with their results upon receipt of the data entry acknowledgment, and to correct them, if necessary, via the website member area.

For more information, **please contact us by email** (secretariat@probioqual.com) to ask for our full procedure.

REQUIRED I.T PREREQUISITES FOR SCHEMES USING VIRTUAL TOOLS

- ✓ Core i5 or equivalent, 4 GB RAM,
- ✓ Browser: Internet Explorer 10 or 11, Firefox, Chrome, Edge,
- ✓ Resolution: 1400 x 900 minimum, 1920 x 1080 optimal,
- ✓ **Minimum speed for optimal image scrolling: 8 Mbps (check using <https://testdebit.info>).**

List of the following virtual platform schemes concerned by I.T prerequisites:

- Blood cytology on digital slides (CYTO) see page 20,
- CSF cytology on digital slides (CLCR) see page 20,
- Semen analysis (SPE) see page 24,
- Staff accreditation assistance (HCLCR, HCHF) see page 26.

IMPROVEMENT AND MODIFICATION OF SCHEMES

We would like to draw your attention to the following points regarding our schemes:

Serum Biochemistry scheme (CQH): following requests from our participants, we have reduced the number of surveys from 35 to 22 annual surveys. We will maintain this format in 2026. This scheme includes neonatal bilirubin.

Serum Protein Electrophoresis and Monoclonal Immunoglobulin Typing scheme (EPS): this scheme includes the evaluation of monoclonal immunoglobulin typing.

Haemoglobin Electrophoresis scheme (ELHB): samples are accompanied by clinical context, allowing you to provide a general conclusion.

Schemes Modifications for 2026:

Serum Biochemistry scheme (CQH): we will propose an evaluation of free bilirubin results.

Serum Protein Electrophoresis and Monoclonal Immunoglobulin Typing scheme (EPS): quantification of the monoclonal peak can be reported in % and g/L.

Blood Gas with Electrolytes scheme (GDS): in 2026, the scheme will include an evaluation of creatinine results.

CO-Oxymetry scheme (COOX): lyophilized samples have been removed. We will provide profiles with significant methaemoglobin and carboxyhaemoglobin levels.

Cerebrospinal Fluid Biochemistry scheme (LCR): only 3 laboratories returned protein electrophoresis results on CSF in 2025, therefore, this test will not be offered in 2026.

Urine Biochemistry scheme (CMU): in order to follow recommended practice trends, in 2026 we are adding the evaluation of Albumin/Creatinine and Protein/Creatinine ratios.

Glomerular Filtration Rate (GFR) and Chronic Kidney Disease (CKD) Evaluation scheme (CLAI): in 2026, this scheme will include urinary albumin measurement, Albumin/Creatinine ratio, and the KFRE (Kidney Failure Risk Equation). The Cockcroft calculation is delated.

Medicines scheme (CMED): in 2026, we are adding control of two medicines: lamotrigine and levetiracetam.

Blood Count (stabilised blood) scheme (NUM): we will add control of the NRBC channel. However, we do not guarantee the completeness of the concentration ranges covered in 2026 for the NRBC channel.

Complete blood count with Reticulocyte Count, Fresh Blood (NFR): we are adding control of erythroblasts and myelemia. For erythroblasts and myelemia, 2026 is a pilot year; we are currently unable to guarantee the full range of values.

Biological preeclampsia markers scheme (PREE): we offer the entry of **preeclampsia risk assessment results during the pregnancy first-trimester** using the specific risk calculation software provided by Thermo-Fisher, Perkin-Elmer, and Roche, based on the supplied demographic data and the measured PIGF result.

NEW FOR 2026

LAUNCH OF THE NEW MEMBER PLATFORM AND THE NEW DATABASE: JANUARY 2026

Initially scheduled for the beginning of 2025, the launch has been postponed to ensure the quality, stability, and security of this new digital environment.

The new digital environment will be used in 2026.

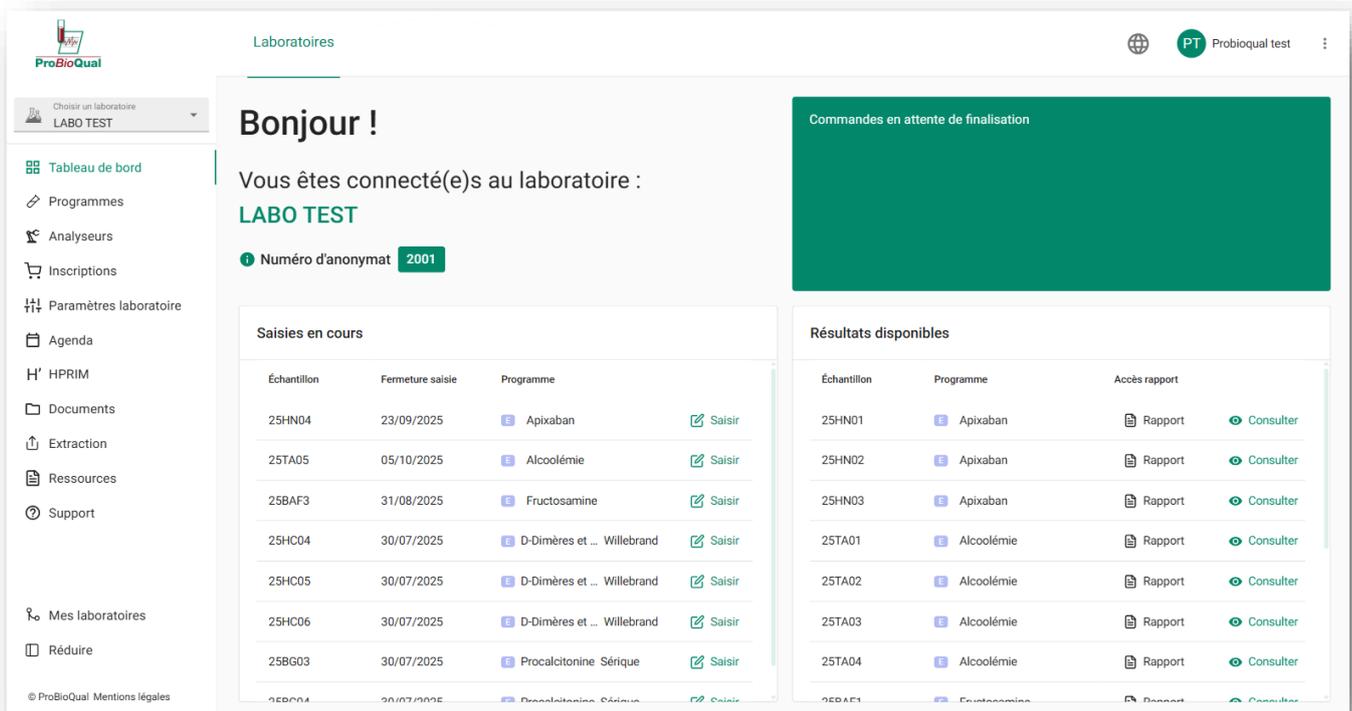
This project, the result of several years of work, includes a complete overhaul of our database and internal tools. It introduces several improvements intended to make data entry and navigation easier for you on a daily basis:

- **Modernized interface:** a fully redesigned layout that is clearer and more intuitive.
- **Enhanced security:** a personal account for each user and an invitation system to join one or more laboratory sites.
- **Analyzer organisation of an analytical site of a medical biology laboratory (MBL):** the ability to describe your analyzers (analytes, techniques) and link them to specific data entries.
- **Dynamic entry forms:** adapted to the specific features of EQA schemes (e.g., thresholds in serology, microbiology, toxicology, etc.).

We've also ensured **the preservation of your entire history:** results, grades, documents, technical data, and more.

A specific communication will inform the laboratories registered in 2026 of the online publication procedures in due course.

Here is an exclusive preview of your future environment:



The screenshot displays the ProBioQual member platform interface for a laboratory named 'LABO TEST'. The interface is clean and modern, with a sidebar on the left containing navigation options like 'Tableau de bord', 'Programmes', 'Analyseurs', 'Inscriptions', 'Paramètres laboratoire', 'Agenda', 'HPRIM', 'Documents', 'Extraction', 'Ressources', 'Support', 'Mes laboratoires', and 'Réduire'. The main content area features a greeting 'Bonjour !' and a confirmation message 'Vous êtes connecté(e)s au laboratoire : LABO TEST'. A 'Numéro d'anonymat' is displayed as '2001'. There are two main data sections: 'Saisies en cours' (In Progress) and 'Résultats disponibles' (Available Results). The 'Saisies en cours' section contains a table with columns for 'Échantillon', 'Fermeture saisie', and 'Programme', listing various samples and their associated programs. The 'Résultats disponibles' section contains a table with columns for 'Échantillon', 'Programme', and 'Accès rapport', listing samples and their corresponding programs with links to view reports.

Échantillon	Fermeture saisie	Programme	
25HN04	23/09/2025	Apixaban	Saisir
25TA05	05/10/2025	Alcoolémie	Saisir
25BAF3	31/08/2025	Fructosamine	Saisir
25HC04	30/07/2025	D-Dimères et ... Willebrand	Saisir
25HC05	30/07/2025	D-Dimères et ... Willebrand	Saisir
25HC06	30/07/2025	D-Dimères et ... Willebrand	Saisir
25BG03	30/07/2025	Procalcitonine Sérique	Saisir

Échantillon	Programme	Accès rapport	
25HN01	Apixaban	Rapport	Consulter
25HN02	Apixaban	Rapport	Consulter
25HN03	Apixaban	Rapport	Consulter
25TA01	Alcoolémie	Rapport	Consulter
25TA02	Alcoolémie	Rapport	Consulter
25TA03	Alcoolémie	Rapport	Consulter
25TA04	Alcoolémie	Rapport	Consulter

FAEEQ – FEDERATION OF EQA ASSOCIATIONS



Fédération des Associations d'Évaluation Externe de la Qualité

Association in accordance with the French Law of 1 July 1901 - registered at the Rhône Prefecture with No. W691080967 - OJ of 12 May 2012

The six non-profit non-governmental associations (registered in accordance with the French Law of 1 July 1901) who make up FAEEQ (French Federation of EQA Associations), namely Asqualab, Association de Biologie Praticienne, Biologie Prospective, CTCB, GBMHM and ProBioQual, have decided to offer their clients a list of EQAs provided under the FAEEQ umbrella.

If you would like the list of these EQAs and associated information, please go to <https://www.faeeq.fr>.

EQA name	Managed by
Specialized antibiotics: <i>scheme</i> ABC: External Quality Assessment (EQA) – Beta-lactams and Carbapenems	ASQUALAB +33 (0)1 45 40 35 75 asqualab@wanadoo.fr https://www.asqualab.com
Specialized antibiotics: <i>scheme</i> ABL: External Quality Assessment (EQA) – Specialized antibiotics (Cefazolin, Cefoxitin, Ceftriaxone, Ciprofloxacin, Clindamycin, Dalbavancin, Daptomycin, Ethambutol, Isoniazid [INH], Linezolid, Moxifloxacin, Ofloxacin, Oxacillin, Pyrazinamide, Rifabutin, Rifampicin, Sulfamethoxazole, Temocillin, Trimethoprim)	
Antifungals	
Antivirals / Antiretrovirals	
Crystalluria	
Cytostatics – Tyrosine kinase inhibitors	
Cytostatics – Others (5-fluorouracil, Etoposide, Platinum compounds)	
Neonatal screening (metabolites and hormone analysis)	
Dépistage néonatal (métabolites et hormonologie)	
Neonatal screening (Hemoglobin S detection)	
Neonatal screening for SMA (Spinal Muscular Atrophy) and SCID (Severe Combined Immunodeficiency)	
EQA Lithiasis: Urinary stones – Stone powders	
EQA Lithiasis: Urinary stones – Infrared spectra	
EQA Lithiasis: Urinary stone analysis – Urinary measurement	
Proteinuria analysis	
G6PD	
Fetal RhD genotyping	
Hydroxychloroquine, chloroquine, and metabolites (blood and serum)	
Immunosuppressants in blood	
Anti-RH1 antibody microtitration	
Kleihauer test	
Sweat tests	
Erythrocyte antibody titration	
Uracilemia	
Vitamins and biofactors in blood	
Vitamins and biofactors in serum	

For more information on these EQA schemes, please contact the managing Associations directly and register with them.


**Fédération des Associations
d'Evaluation Externe de la Qualité**

Association in accordance with the French Law of 1 July 1901 - registered at the Rhône Prefecture with No. W691080967 - OJ of 12 May 2012

EQA name	Managed by
ADAMTS13	BIOLOGIE PROSPECTIVE +33 (0)3 83 44 51 41 contact@biologie-prospective.org https://www.biologie-prospective.org
Anti-PLA2R antibodies	
Anti-acetylcholine receptor antibodies and anti-striated muscle antibodies	
16S rRNA: molecular biology	
Aspergillosis: molecular biology	
Babesiosis: molecular biology	
General bacteriology: direct examination	
Urine dipstick	
Bartonellosis: molecular biology	
Lyme borreliosis: molecular biology	
Brucellosis: molecular biology	
Fecal calprotectin and elastase	
Campylobacter: antibodies	
Candidiasis: molecular biology	
Candida auris: molecular biology	
Candidiasis: antibodies	
Carbapenems: molecular biology	
CDT	
Post-vasectomy check	
Functional stool analysis: fecalogram	
Cryoglobulins	
Cytology of biological fluids (excluding CSF)	
Lymph node cytology	
Dermatophytes: molecular biology	
Erythroblasts	
Glycopeptides: molecular biology	
Immature granulocytes	
Influenza and RSV: antigen	
Urinary hCG	
Helicobacter pylori: antibiotic susceptibility testing	
Helicobacter pylori: antibodies	
Helicobacter pylori: molecular biology (stool)	
Helicobacter pylori: antigen (stool)	
Blood culture	
Hematologic disorders: flow cytometry	
Remote hemostasis: ACT on whole blood	
Remote hemostasis: INR on whole blood	
Leptospirosis: molecular biology	
MAR-Test	
Mucorales: molecular biology	
Mycology (filamentous fungi – yeasts): direct examination	
Extended phenotyping	
Puumala virus: molecular biology	
SARS-CoV-2: antigen	
SARS-CoV-2: infectious serology	
Hühner test	
Tetanus: antibodies	
Time-lapse	
Toxoplasma gondii: molecular biology	
Erythrocyte sedimentation rate or aggregation	

For more information on these EQA schemes, please contact the managing Associations directly and register with them.



Fédération des Associations d'Evaluation Externe de la Qualité

Association in accordance with the French Law of 1 July 1901 - registered at the Rhône Prefecture with No. W691080967 - OJ of 12 May 2012

EQA name	Managed by
Allergie	
Dengue / Zika / Chikungunya: Molecular Biology	
SARS-CoV-2: Molecular Biology	
Biotherapy: Adalimumab / Infliximab / Vedolizumab / Ustekinumab / Rituximab / Golimumab / Tocilizumab	
HPV screening on cytology smear	
Angiotensin-converting enzyme (ACE)	
VHC on whole blood: molecular biology	
<i>Clostridium difficile</i> : GDH, molecular biology	
Viral meningitis: molecular biology	
Neonatal and adult bacterial meningitis: molecular biology	
Bacterial gastroenteritis: molecular biology	
<i>Staphylococcus aureus</i> (methicillin resistance): molecular biology	
<i>Staphylococcus aureus</i> (toxins): molecular biology	
Seminal plasma (interpretative assessment)	
Fecal blood	
Vaginal screening for Group B <i>Streptococcus</i>	

CTCB
+33(0)5 34 51 49 80
secretariat@ctcb.com
<https://www.ctcb.com>

EQA name	Managed by
Lymphoid clonality analysis	
IGHV mutational status analysis	
Lymphoid NGS panel	
Myeloid NGS panel	
BCR::ABL1 transcript quantification by GeneXpert	
Major BCR::ABL1 transcript quantification	
Minor BCR::ABL1 transcript quantification	
NPM1 Type A transcript quantification	
BCR::ABL1 TKD mutation screening	
Calreticulin mutation screening	
TP53 mutation screening	
BCR::ABL1 transcript screening	
MYD88 L265P mutation detection and quantification	
JAK2 V617F mutation detection and quantification	
FLT3 ITD duplication detection and quantification	
CBFB::MYH11 type A and RUNX1::RUNX1T1 transcript detection and quantification	

GBMHM
+33 (0)1 42 49 40 28
contact-eeq@gbmhm.fr
<http://www.gbmhm.fr>

For more information on these EQA schemes, please contact the managing Associations directly and register with them.

LABORATORY MEDICINE CPD

**ProBioQual is a training organisation registered under
No. 82 69 04 169 69 with the Auvergne – Rhône Alpes Prefecture.**



**ProBioQual is a recognised training organisation for CPD for healthcare professionals,
registered with ANDPC under No. 1747.**



ProBioQual is registered with Datadock under No. 0050370.



**ProBioQual has been Qualiopi-certified by AFNOR since 2020.
This label confirms the quality of the processes put in place by ProBioQual.**
The quality certification was awarded for the following category: training activities.

In order to fulfill the need for Continuing Professional Development (CPD) and continuing medical training, ProBioQual has offered, since it was founded, **laboratory medicine CPD** for medical laboratory biologists and medical laboratory technicians working for public and private laboratories.

These face to face training events cover all aspects of laboratory medicine and the problems medical laboratory biologists and medical laboratory technicians face in their daily routine (bacteriology, biochemistry, haematology, immunology, virology, quality assurance, IT, instruments/equipment, legislation, etc.).

In 2026, we are organising 2 days of CPD (subject to validation by the French National CPD Agency) as part of the BIOMED-J conference on 28 and 29 May 2026.

We will also offer you recurrent training in laboratory medicine, for example:

MANAGING QUALITY CONTROL RESULTS: 1 DAY

- Introduction to quality control and external quality assessment,
- Analytical objectives for quality control and technical validation,
- Managing quality control in an ISO 15189 accredited laboratory,
- What an EQA can bring to biochemistry and how to make use of it, Case studies.

UNCERTAINTY MEASUREMENT IN LABORATORY MEDICINE: 1 DAY

- Principles and definition,
- Presentation of the different methods of evaluating uncertainty measurement,
- Presentation of practical aspects and interpretation.

TRAINING MANAGERS / CONTACT

Our laboratory biologists in charge of training	Pierre-Jean Bondon - Morgane Gossez-Coulaud Laurent Jallades - Jonathan Lopez Chantal Roure-Sobas - Christine Vinciguerra
For any queries relating to registration	Tel.: +33 (0)4 72 65 34 90 Email: formation@probioqual.com

See our upcoming training events on our website <https://www.probioqual.com>

REGISTRATION PROCEDURES FOR QUALITY CONTROL SCHEMES

The registration form, general terms and conditions and this brochure are the basis of the contract review. ProBioQual is a non-profit and non-governmental association (French Law of 1 July 1901), registered with Rhône Prefecture under No. W691066392. All prices are net of tax (VAT not applicable - Article 261 of the French Tax Code). By registering for one of our schemes, you accept all the clauses given in this document and in our general terms and conditions (page 27).

⚠ We recommend to register as soon as possible. We have anticipated enough stock to guarantee registrations until October 9th 2025. After this date, we can no longer guarantee stock availability.

1. **Online registration on our website** <https://www.probioqual.com>

Save time by registering on our website **with your username and password**. In the member's area, you can access your personalised registration form via the "Registrations" menu (*an online registration guide is available*).

You can:

- See past orders (validated orders),
- Create or modify an order (pending orders), save your order in a 'basket' before validating it (you can have several baskets at the same time).

2. **If you don't succeed in registering online, you can register by postal mail:**

- Complete carefully the personalised registration form sent by post,
- **Send back the ORIGINAL form with ALL pages ONLY by post,**
- Include your purchase order or payment,
- **DO NOT FAX, DO NOT PHOTOCOPY.**

3. **For laboratories not currently registered with ProBioQual:**

- Contact our secretary by email: secretariat@probioqual.com

⚠ Orders are confirmed by email as soon as they are validated by ProBioQual. It is your responsibility to verify that the confirmed order suits with your requirements.

Participants are not selected. However, for some of our EQA schemes, a maximum number of participants has been set for stock reasons.

Participation takes place in order of registration (the only selection criterion).

Registration is customisable and can include one or more schemes individually (unless otherwise indicated in the scheme documentation). Each laboratory can choose to examine the analytes it needs.

The laboratory code we provide is associated with **a single geographical site**. Reports, certificates of registration and annual summaries are associated with this laboratory code.

Transferring samples from one geographical site to another is not permitted. The statistical processing for a second analytical system for the same sample may only be carried out for a single geographical site.

Unless otherwise indicated in the brochure, **registration** on an EQA scheme includes the assessment of **two analytical systems** (or two techniques) **at a same geographical medical laboratory site**.

If you have more than two systems for assessment, you must proceed to one more registration.

We aren't responsible if these instructions are not followed.

NOTE: In order to be accepted, registration documents must be clearly completed in full and returned before the deadline of October 9th 2025.

Late registration is possible, but ProBioQual can't guarantee availability of stock.

OUR QUALITY CONTROL SCHEMES (*)

(*) Subject to modification

EQA - EXTERNAL QUALITY ASSESSMENT			<i>Pages</i>
BIOCHEMISTRY			
A	CQH	Serum biochemistry (chemistry, lipids, specific proteins)	15
A	FRUCTO	Fructosamine	15
A	EPS	Serum protein electrophoresis and immunotyping	15
A	GDS	Blood gas with electrolytes	15
	COOX	CO-oxymetry	15
A	HBA1C	Glycated haemoglobin	16
A	ELHB	Haemoglobin electrophoresis	16
A	CARD	Cardiac markers	16
A	CPN	Natriuretic peptides	16
A	PCT	Procalcitonin	16
	CATE	Catecholamines and plasma derivatives	16
A	MSMPO	Biochemical risk assessment for Fetal Down's Syndrom	16
A	CIMD	Tumour markers and general hormones	17
A	CIMB	Gonadal peptides	17
A	CIME	Specialised hormones (steroids, IGF-1 and IGFBP-3)	17
A	CIMF	Specialised tumour markers	17
A	CIMG	Glucagon	17
A	CIMH	ACTH	17
A	CIMK	Thyroid antibodies	17
	CIMM	Bone markers	17
A	CIMN	Calcitonin	17
A	CIMR	Renin and corticosteroids	17
A	CIMT	Specialised hormones (free testosterone and gastrin)	17
A	CIMV	Vitamin D	17
	CTX	CrossLaps	18
	PREE	Biological preeclampsia markers	18
A	LCR	Cerebrospinal fluid biochemistry	18
A	CMU	Urine biochemistry	18
A	CLAI	Glomerular Filtration Rate (GFR) and Chronic Kidney Disease (CKD) Evaluation	18
	CATU	Catecholamines and urine derivatives	18
A	CLU	Urinary free cortisol	18
PHARMACOLOGY - TOXICOLOGY			
A	CALC	Blood alcohol	19
A	CMED	Medicines	19
A	TOXS	Serum toxicology	19
	TOXU	Urine toxicology	19
	ETG	Urinary ethyl glucuronide	19
	COTI	Urinary cotinine	19
HAEMATOTOLOGY			
A	NUM	Blood count (stabilised blood)	20
A	NFR	Complete blood count with reticulocyte count, fresh blood	20
A	RETI	Reticulocyte count (stabilised blood)	20
A	VS	Sedimentation rate	20
	CYTO	Blood cytology on digital slides	20
	CLCR	CSF cytology on digital slides	20

OUR QUALITY CONTROL SCHEMES cont. (*)

(*) Subject to modification

HAEMOSTASIS			
A	HMPO	Haemostasis	21
A	HPPO	Heparin	21
A	HMDD	D-dimers / Von Willebrand factor	21
A	ACC	Circulating anticoagulants	21
A	APIX	Apixaban	21
A	DANA	Danaparoid	21
A	DABI	Dabigatran	21
A	FONDA	Fondaparinux	22
A	RIVA	Rivaroxaban	22
	ARGA	Argatroban	22
A	MONO	Fibrin monomers	22
	PDF	Fibrin and fibrinogen degradation products	22
	TIH	Anti-PF4 antibody analysis	22
SEROLOGY			
	FONG-Ac	Anti-Aspergillus antibodies	23
	FONG-Ag	Aspergillus antigen in serum	23
	FONG-LBA	Aspergillus antigen detection in BAL	23
	CRYPTO	Cryptococcus antigen in serum	23
A	SYPHI	Syphilis serology	23
A	LYME	Lyme serology	23
BACTERIOLOGY			
	BAC	Bacteriology	24
	HELI	H. pylori breath test	24
REPRODUCTIVE BIOLOGY			
	SPE	Semen analysis	24
MULTI-DISCIPLINARY			
A	HIL	Serum indices	25
	BD	Point-of-care testing	25

Accréditation
N° 1-5587
Portée disponible
sur www.cofrac.fr



= A : Accredited scheme as per NF EN ISO/IEC 17043

HABI – STAFF ACCREDITATION ASSISTANCE

	HCHF	Blood cytology	26
	HCLCR	CSF cytology	26

EQA – EXTERNAL QUALITY ASSESSMENT

1 – BIOCHEMISTRY (Sub-family General and Specialised Biochemistry)

Serum biochemistry (chemistry, lipids, specific proteins) CQH

746 enrolled analytical sites (since 1973) – Estelle Bugni, Régine Cartier, Laurent Desmurs, Christine Lombard

€550

Human serum (lyophilised or liquid), 1 mL to 5 mL

A

22 surveys per year – 32 samples - 62 analytes tested

Total bile acids	Conjugated bilirubin	Total cholesterol	IgA / IgG / IgM	Potassium
5'-nucleotidase	Free bilirubin	CK	Lactate	Prealbumin
α Amylase	Total bilirubin	Complement C3	LDH	Total protein
Uric acid	Calcium	Complement C4	Lipase	Soluble transferrin receptors
ALT (SGPT)/AST (SGOT)	Total neonatal bilirubin	Creatinine	Lp(a)	Retinol binding protein (RBP)
Albumin		CRP	Magnesium	Sodium
Alpha-1 antitrypsin	Ceruloplasmin	Cystatin C	Orosomucoïd (α -1-acid glycoprotein)	Transferrin
Alpha-2 macroglobulin	Kappa and lambda free light chains	Iron		Transferrin saturation coefficient
Ammonia	Chloride	Ferritin	Osmolality	Triglycerides
ApoA2/ApoC2/ApoC3	HDL cholesterol	Gamma-GT	ALP	Urea
Apolipoprotein A1 and B	LDL cholesterol	Glucose	Phosphate	
Bicarbonate	Free cholesterol	Haptoglobin	Phospholipids	

Rheumatoid factor (autoimmunity)

Optional, subject to **OBLIGATORY** CQH registration:

Fructosamine FRUCTO option

45 enrolled analytical sites (since 2021) – Estelle Bugni, Régine Cartier, Laurent Desmurs

€190

Lyophilised materials, 1 mL

A

4 surveys per year – 4 samples

Fructosamine

Serum protein electrophoresis and monoclonal immunoglobulin typing EPS

401 enrolled analytical sites (since 2012) – Magali Dechomet, Béatrice Guillemin, Christine Lombard

€260

Human serum (lyophilised), 1 mL

 Clinical Cases

A

6 surveys per year – 6 samples

Total protein	Protein electrophoresis	Monoclonal immunoglobulin typing
IgA / IgG / IgM	Kappa free light chains	Lambda free light chains

Blood gas with electrolytes GDS

554 enrolled analytical sites (since 2013) – Régine Cartier, Béatrice Guillemin, Bernard Poggi, Isabelle Quadrio

1st box

€125

Ready-to-use ampoules

4 surveys per year – 6 samples

Additional box

€95

pH	Bicarbonate	Glucose (blood gas)
pO ₂	Ionised calcium	Lactate (blood gas)
pCO ₂	Chloride (blood gas)	Potassium (blood gas)
Total CO ₂	Creatinine (blood gas) *	Sodium (blood gas)

A

Optional, subject to **OBLIGATORY** GDS registration:

CO-Oxymetry COOX option

445 enrolled analytical sites (since 2017)

1st box

€160

Régine Cartier, Béatrice Guillemin, Bernard Poggi, Isabelle Quadrio

Ready-to-use ampoules - 4 surveys per year – 5 samples

Additional box

€100

 This option is not suitable for Cobas b123 (ROCHE) devices.

Total haemoglobin	Methaemoglobin	Carboxyhaemoglobin	Oxyhaemoglobin (O ₂ Hb or fractional haemoglobin saturation)	Measured functional saturation SO ₂
-------------------	----------------	--------------------	---	--

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

* : Analytes not covered by accreditation

EQA – EXTERNAL QUALITY ASSESSMENT

BIOCHEMISTRY (Sub-family General and Specialised Biochemistry) - cont.

Glycated haemoglobin HBA1C

437 enrolled analytical sites (since 2009) – Charlotte Cueraq, Philippe Joly, Louis Lacaille, Bernard Poggi, Laetitia Selman
 Human blood (lyophilised), **0.3 to 0.5 mL**
 4 surveys per year – 6 samples

€280
A

HbA1c

This scheme is not compatible with Afinion (ABBOTT) devices, registration for the BD scheme (page 25) possible.

Haemoglobin electrophoresis ELHB

115 enrolled analytical sites (since 2011) – Philippe Joly, Louis Lacaille, Laetitia Selman
 Human blood (lyophilised), **0.5 mL**
 4 surveys per year – 6 samples

Clinical Cases

€315
A

Electrophoretic fractions of haemoglobin
--

Cardiac markers CARD

739 enrolled analytical sites (since 2002) – Delphine Collin-Chavagnac, Charlotte Cueraq, Béatrice Guillemin, Bernard Poggi
 Human serum (lyophilised), **2 to 3 mL**
 4 surveys per year – 7 samples

€225
A

Myoglobin	Troponin I	Troponin T	Homocysteine
-----------	------------	------------	--------------

Natriuretic peptides CPN

655 enrolled analytical sites (since 2008) – Delphine Collin-Chavagnac, Charlotte Cueraq, Béatrice Guillemin, Bernard Poggi
 Human plasma (lyophilised), **1 mL to 2 mL**
 4 surveys per year – 6 samples

€335
A

BNP	NT-proBNP
-----	-----------

Procalcitonin PCT

594 enrolled analytical sites (since 2010) – Béatrice Guillemin, Bernard Poggi, Sabine Zaepfel
 Human serum (lyophilised), **1 mL**
 4 surveys per year – 8 samples

€210
A

Quantitative procalcitonin	Semi-quantitative procalcitonin
----------------------------	---------------------------------

Catecholamines and plasma derivatives CATE

31 enrolled analytical sites (since 2017) – Estelle Bugni
 Plasma and serum (lyophilised), **3 to 5 mL**
 4 surveys per year – 6 samples

€270

Adrenaline (epinephrine)	Total metanephrine	Free metanephrine	Serotonin
Noradrenaline (norepinephrine)	Total normetanephrine	Free normetanephrine	5-Hydroxyindoleacetic acid
Dopamine	Total 3-methoxytyramine	Free 3-methoxytyramine	

Biochemical risk assessment for fetal Down's Syndrom MSMPO

66 enrolled analytical sites (since 2011) – David Cheillan, Magali Pettazzoni, Laetitia Selman
 Human serum (lyophilised), **1 mL**
 4 surveys per year – 8 samples

Demographic data

€620
A

Total hCG	Free beta-hCG	AFP
Estriol	PAPP-A	Risk calculation

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

BIOCHEMISTRY (Sub-family General and Specialised Biochemistry) - cont.

Immunoassay with marker

Marie Lopez, Laetitia Selman – Lyophilised human serum (except CIMG samples for glucagon)

6 surveys per year – 12 samples (except CIMG, CIMK and CIMM schemes: 9 samples)

63 analyses distributed over 12 different serums

CIMD - Tumour markers and general hormones 3 mL/vial 1st box €520

726 enrolled analytical sites (since 1977) Additional box €250

⚠ Sample volume: if necessary, order an additional kit.

A

CEA	Ferritin	C-peptide	Free T ₃	Total IgE (allergy)
AFP	Folate	Progesterone	Free T ₄	Parathyroid hormone
β2 microglobulin	FSH	Prolactin	Testosterone	Estradiol
CA 125	Total hCG	Free PSA	TSH	Cortisol
CA 15-3	GH	Total PSA	Vitamin B ₁₂	LH
CA 19-9	Insulin	❖ DHT (dihydrotestosterone)	❖ S100 protein β	❖ EPO

❖ 4 surveys per year

CIMB - Gonadal peptides 1 mL/vial €480

112 enrolled analytical sites (since 2013)

AMH	Inhibin B
-----	-----------

A

CIME - Specialised hormones (steroids, IGF-1 and IGFBP-3) 3 mL/vial €380

132 enrolled analytical sites (since 2013)

Aldosterone	17-α-OH-progesterone	Δ ₄ -androstenedione
DHEA sulfate	IGF-1	SHBG or TeBG
DHEA	IGFBP-3	

A

CIMF - Specialised tumour markers 1 mL/vial €285

162 enrolled analytical sites (since 2013)

CA 72-4	Cyfra 21-1	NSE
Free β hCG subunit	Thyroglobulin	

A

CIMG - Glucagon (9 samples containing monomeric glucagon) 0.5 mL/vial €395

15 enrolled analytical sites (since 2013)

Glucagon

A

CIMH - ACTH 1 mL/vial €240

131 enrolled analytical sites (since 2013)

ACTH

A

CIMK - Thyroid antibodies (9 samples) 1 mL/vial €370

306 enrolled analytical sites (since 2024)

Anti-TG (autoimmunity)	Anti-TPO (autoimmunity)	Thyrotropin receptor autoantibodies (TRAb)
------------------------	-------------------------	--

A

CIMM - Bone markers (9 samples) 1 mL/vial €360

63 enrolled analytical sites (since 2024)

BAP	P1NP	Osteocalcin
-----	------	-------------

CIMN - Calcitonin 1 mL/vial €265

77 enrolled analytical sites (since 2013)

Calcitonin

A

CIMR - Renin and corticosteroids 1 mL/vial €220

70 enrolled analytical sites (since 2013)

PRA	Renin	
11-Desoxycortisol	Corticosterone	Desoxycorticosterone

A

CIMT - Specialised hormones (free testosterone and gastrin) 1 mL/vial €295

18 enrolled analytical sites (since 2013)

Free testosterone	Gastrin
-------------------	---------

A

CIMV - Vitamin D 1 mL/vial €255

438 enrolled analytical sites (since 2013)

25-(OH) vitamin D	1,25-(OH) ₂ vitamin D
-------------------	----------------------------------

A

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

EQA – EXTERNAL QUALITY ASSESSMENT

BIOCHEMISTRY (Sub-family General and Specialised Biochemistry) - cont.

CrossLaps CTX

62 enrolled analytical sites (since 2024) – Marie Lopez, Laetitia Selman
 Human serum (lyophilised), **1 mL**
 4 surveys per year – 6 samples

€315

CTX

⚠ This scheme is not compatible with ELISA (IDS).

Biological preeclampsia markers PREE

45 enrolled analytical sites (since 2020) – Louis Lacaille, Magali Pettazoni, Bernard Poggi, Laetitia Selman
 Human serum (lyophilised), **1 mL**
 4 surveys per year – 8 samples

€420

 Demographic data

PIGF	sFlt-1	sFlt-1/PIGF ratio	PAPP-A
First-trimester pregnancy preeclampsia risk assessment			

Cerebrospinal fluid biochemistry LCR

424 enrolled analytical sites (since 2017) – Béatrice Guillemain, Bernard Poggi, Isabelle Quadrio
 Cerebrospinal fluid **3 mL**, in liquid form
 4 surveys per year – 6 samples

€210

A

Albumin	Chloride	Sodium	Glucose
Lactate	IgA / IgG / IgM	Total protein	

Urine biochemistry CMU

647 enrolled analytical sites (since 1986) – Estelle Bugni, Bernard Poggi, Sabine Zaepfel
 Human urine (lyophilised), **5 mL**
 11 surveys per year – 15 samples - 16 analytes tested

€290

A

Uric acid	Glucose	Osmolality	Total protein	Urea
Calcium	Magnesium	Phosphate	Albumin/creatinine ratio	Urine density*
Chloride	Albumin (microalbumin)	Potassium	Protein/creatinine ratio	
Urinary creatinine	β2 microglobulin*	Urine pH*	Sodium	

Glomerular Filtration Rate (GFR) and Chronic Kidney Disease (CKD) Evaluation CLAI

219 enrolled analytical sites (since 2008) – Estelle Bugni, Bernard Poggi, Sabine Zaepfel
 4 surveys - 6 human serum and 6 human urine (lyophilised), **1 mL**
 1 survey on fresh human sample, 1 serum (**0.5 mL**) and 1 urine (**1.5 mL**)
 i.e. 5 surveys per year – 14 samples

€145

A

Serum creatinine	Creatinine clearance, measured	Cystatin C	Urine Albumin-to-Creatinine Ratio (UACR)
Urinary creatinine	GFR evaluation: CKD-EPI	GFR evaluation: KFRE	GFR evaluation: EKFC
Urinary Albumin (microalbumin)			

Catecholamines and urine derivatives CATU

47 enrolled analytical sites (since 1983) – Estelle Bugni
 Human urine (lyophilised), **5 mL**
 6 surveys per year – 12 samples

1st box

€300

Additional box

€220

Adrenaline (epinephrine)	Total normetanephrine	Free normetanephrine	Vanillylmandelic acid
Noradrenaline (norepinephrine)	Total metanephrine	Free metanephrine	Homovanillic acid
Dopamine	Total 3-methoxytyramine	Free 3-methoxytyramine	5-Hydroxyindoleacetic acid
Urinary creatinine			

Urinary free cortisol CLU

66 enrolled analytical sites (since 1983) – Estelle Bugni, Marie Lopez
 Human urine (lyophilised), **3 mL**
 6 surveys per year – 12 samples

€230

A

Free cortisol	Urinary creatinine
---------------	--------------------

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

* : Analytes not covered by accreditation

EQA – EXTERNAL QUALITY ASSESSMENT

2 - PHARMACOLOGY – TOXICOLOGY (Sub-family Pharmacology-Toxicology)

Blood alcohol	CALC
480 enrolled analytical sites (since 2000) – Estelle Bugni, Antony Citterio-Quentin, Sabine Cohen Human serum (lyophilised), 5 mL and specific solvents 4 surveys per year – 6 samples	€140 A
<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">Ethanol</div>	

Medicines	CMED																				
438 enrolled analytical sites (since 1993) – Estelle Bugni, Antony Citterio-Quentin, Sabine Cohen Human serum (lyophilised), 5 mL 4 surveys per year – 6 samples	€220 A																				
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>Valproic acid</td><td>Digoxin</td><td>Methotrexate</td><td>Theophylline</td></tr> <tr><td>Amikacin</td><td>Gentamicin</td><td>Phenobarbital</td><td>Tobramycin</td></tr> <tr><td>Caffeine</td><td>Lamotrigine*</td><td>Phenytoin</td><td>Vancomycin</td></tr> <tr><td>Carbamazepine</td><td>Lévétiracétam*</td><td>Tacrolimus</td><td></td></tr> <tr><td>Cyclosporine</td><td>Lithium</td><td>Teicoplanin</td><td></td></tr> </table>	Valproic acid	Digoxin	Methotrexate	Theophylline	Amikacin	Gentamicin	Phenobarbital	Tobramycin	Caffeine	Lamotrigine*	Phenytoin	Vancomycin	Carbamazepine	Lévétiracétam*	Tacrolimus		Cyclosporine	Lithium	Teicoplanin		
Valproic acid	Digoxin	Methotrexate	Theophylline																		
Amikacin	Gentamicin	Phenobarbital	Tobramycin																		
Caffeine	Lamotrigine*	Phenytoin	Vancomycin																		
Carbamazepine	Lévétiracétam*	Tacrolimus																			
Cyclosporine	Lithium	Teicoplanin																			

Serum toxicology	Qualitative and quantitative analyses	TOXS					
326 enrolled analytical sites (since 2012) – Antony Citterio-Quentin, Sabine Cohen, Christophe Doche Human serum (lyophilised), 5 mL 4 surveys per year – 6 samples	Clinical Cases	€165 A					
5 drug families/molecules analysed systematically:							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Tricyclic antidepressants</td> <td style="padding: 2px 5px;">Barbiturates</td> <td style="padding: 2px 5px;">Benzodiazepines</td> <td style="padding: 2px 5px;">Paracetamol</td> <td style="padding: 2px 5px;">Salicylates</td> </tr> </table>			Tricyclic antidepressants	Barbiturates	Benzodiazepines	Paracetamol	Salicylates
Tricyclic antidepressants	Barbiturates	Benzodiazepines	Paracetamol	Salicylates			
And potentially all molecules (medicines and narcotics) detected using separation techniques							

Urine toxicology	Qualitative and/or quantitative analyses	TOXU												
533 enrolled analytical sites (since 2007) – Antony Citterio-Quentin, Sabine Cohen, Christophe Doche Human urine (lyophilised), 5 mL 4 surveys per year – 4 samples	Clinical Cases	€160												
12 drug and narcotic families/molecules analysed systematically:														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Amphetamines</td> <td style="padding: 2px 5px;">Benzodiazepines</td> <td style="padding: 2px 5px;">Cocaine</td> <td style="padding: 2px 5px;">Methadone</td> </tr> <tr> <td style="padding: 2px 5px;">Tricyclic antidepressants</td> <td style="padding: 2px 5px;">Buprenorphine</td> <td style="padding: 2px 5px;">Ecstasy</td> <td style="padding: 2px 5px;">Methamphetamine</td> </tr> <tr> <td style="padding: 2px 5px;">Barbiturates</td> <td style="padding: 2px 5px;">Cannabis</td> <td style="padding: 2px 5px;">EDDP</td> <td style="padding: 2px 5px;">Opiates</td> </tr> </table>			Amphetamines	Benzodiazepines	Cocaine	Methadone	Tricyclic antidepressants	Buprenorphine	Ecstasy	Methamphetamine	Barbiturates	Cannabis	EDDP	Opiates
Amphetamines	Benzodiazepines	Cocaine	Methadone											
Tricyclic antidepressants	Buprenorphine	Ecstasy	Methamphetamine											
Barbiturates	Cannabis	EDDP	Opiates											
And other potentially toxic molecules detected using separation techniques														

Urinary ethyl glucuronide	ETG
9 enrolled analytical sites (since 2024) – Estelle Bugni, Bernard Poggi Human urine (lyophilised) 4 surveys per year – 6 samples	€200
<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">Urinary ethyl glucuronide</div>	

Urinary cotinine	COTI		
⚠ Sample volume - order additional boxes if required 70 enrolled analytical sites (since 2004) – Estelle Bugni, Bernard Poggi Human urine (lyophilised), 1.5 mL 4 surveys per year – 6 samples	€170		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 10px;">Quantitative cotinine</td> <td style="padding: 2px 10px;">Qualitative cotinine</td> </tr> </table>	Quantitative cotinine	Qualitative cotinine	
Quantitative cotinine	Qualitative cotinine		

A: Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

* : Analytes not covered by accreditation

3 - HAEMATOLOGY (Sub-family blood cytology)

Blood count (stabilised blood) NUM

515 enrolled analytical sites (since 2009) – Estelle Bugni, Laurent Jallades

€350

Stabilised blood containing human RBCs, mammalian WBCs and platelets ready-to-use liquid, **2 mL**

A

4 surveys per year – 8 samples

WBC	Haemoglobin	MCV	MCHC	Platelets (impedance, optical)	NRBC channel *
RBC (impedance, optical)	Haematocrit	MCH	RDW	MPV	

2 options, subject to **OBLIGATORY NUM** registration:

Complete blood count with reticulocyte count, fresh blood NFR option

439 enrolled analytical sites (since 2011) – Estelle Bugni, Laurent Jallades

€280

Fresh human blood, **1 mL** samples delivered within **24 hours**, **to be analysed preferably on day of receipt**

A

4 surveys per year – 4 samples

 Limited to mainland France, not including Corsica

WBC	RBC (impedance, optical)	Haemoglobin	Haematocrit	MCV
RBC-most frequent volume (R-MFV)	MCH (impedance, optical)	MCHC	RDW	MPV
Platelets (impedance, optical, fluorescence, microscope)	Immature platelet fraction (IPF)	WBC differential (analyser, microscope)	Reticulocytes (fluorescence, microscope)	Immature reticulocyte fraction (IRF)
Reticulocyte haemoglobin content (CHR)	Myelemia*	Erythroblasts (analyzer, microscope) *		

Reticulocyte count (stabilised blood) RETI option

241 enrolled analytical sites (since 2015) – Estelle Bugni, Laurent Jallades

€215

Human and animal blood (ready-to-use liquid), **3 mL**

A

2 surveys per year – 4 samples

Reticulocytes

For a larger panel of reticulocyte concentrations, combining NFR and RETI OPTIONS is recommended.

Sedimentation rate VS

149 enrolled analytical sites (since 2012) – Estelle Bugni, Laurent Jallades

€250

Human and animal blood (ready-to-use liquid), **6 mL**

A

4 surveys per year – 8 samples

Sedimentation rate 1st hour

 These samples are not compatible with the technique measuring RBC aggregation capacity using photometry ALIFAX (ROLLER 10/ROLLER 20/JO-PLUS and TEST1), ALCOR Scientific (iSED and miniiSED), MINDRAY BC-780, etc.

Blood cytology on digital slides CYTO

50 enrolled analytical sites (since 2015) – Laurent Jallades, Laetitia Selman

€250

4 surveys per year – 8 digitalised MGG-stained blood smears

 Clinical Cases

WBC differential	Appearance of cellular elements	Diagnostic hypothesis
------------------	---------------------------------	-----------------------

 see IT prerequisites (page 5)

CSF cytology on digital slides CLCR

72 enrolled analytical sites (since 2018) – Cécile Dumas, Laurent Jallades, Philippe Joly, Laetitia Selman

€200

4 surveys per year – 4 digitalised MGG-stained or Wright Giemsa-stained cyto centrifuge slides

 Clinical Cases

Nucleated cell differential	Diagnostic hypothesis
-----------------------------	-----------------------

 see IT prerequisites (page 5)

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

* : Analytes not covered by accreditation

EQA – EXTERNAL QUALITY ASSESSMENT

4 – HAEMOSTASIS (Sub-family Haemostasis)

Haemostasis HMPO

⚠ Sample volume: if necessary, order an additional kit.

547 enrolled analytical sites (since 1975) – Chantal Bon, Béatrice Guillemain

Human citrated plasma (lyophilised), **1 mL**

10 surveys per year – **20 plasmas**

1st box €300

Additional box €210

Prothrombin time activity (%), Prothrombin time and INR	PTR differential factors (II, V, VII, X)	Antithrombin (activity and antigen)	Protein S (activity and antigen)	Thrombin time
Fibrinogen	aPTT differential factors (VIII, IX, XI, XII)	Protein C (Activity and antigen)	Free protein S	Reptilase time
aPTT / KCT	Factor XIII			

A

Heparin HPPO

324 enrolled analytical sites (since 1990) – Chantal Bon, Béatrice Guillemain

Human citrated plasma (lyophilised), **1 mL**

6 surveys per year – **20 plasmas** (10 vials SH + 10 vials LMWH)

€270

A

Standard heparin (SH)	Low-molecular-weight heparin (LMWH)
-----------------------	-------------------------------------

D-Dimers / Von Willebrand factor HMDD

541 enrolled analytical sites (since 2000) – Chantal Bon, Béatrice Guillemain

Human citrated plasma (lyophilised), **1 mL**

6 surveys per year – **12 plasmas** (D-dimer assay on **12** samples and Von Willebrand factor assay on **8** samples)

€250

A

D-Dimers	Von Willebrand facto antigen	Von Willebrand factor activity
----------	------------------------------	--------------------------------

Circulating anticoagulants ACC

⚠ Sample volume: if necessary, order an additional kit.

156 enrolled analytical sites (since 2013) – Chantal Bon, Béatrice Guillemain

Human citrated plasma (lyophilised), **1 mL**

4 surveys per year – **8 samples**

1st box €270

Additional box €200

aPTT	Dilute Russell's viper venom time (dRVVT screening and confirmation)
Mix test	dRVVT mix/control ratio
ROSNER indice	Staclot LA®
Sensitive/insensitive aPTT normalised ratio	Hemosil Silica Clotting Time® (screening and confirmation)

A

Apixaban APIX

130 enrolled analytical sites (since 2017) – Chantal Bon, Béatrice Guillemain

Human citrated plasma (lyophilised), **1 mL**

4 surveys per year – **6 samples**

€280

A

Apixaban

Danaparoid DANA

57 enrolled analytical sites (since 2020) – Chantal Bon, Béatrice Guillemain

Human citrated plasma (lyophilised), **1 mL**

4 surveys per year – **6 samples**

€230

A

Danaparoid

Dabigatran DABI

64 enrolled analytical sites (since 2017) – Chantal Bon, Béatrice Guillemain

Human citrated plasma (lyophilised), **1 mL**

4 surveys per year – **6 samples**

€280

A

Dabigatran

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

HAEMOSTASIS (Sub-family Haemostasis) cont.

Fondaparinux		FONDA
<p>19 enrolled analytical sites (since 2020) – Chantal Bon, Béatrice Guillemain</p> <p>Human citrated plasma (lyophilised), 1 mL</p> <p>4 surveys per year – 6 samples</p>		<p>€230</p> <p>A</p>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Fondaparinux</div>		
Rivaroxaban		RIVA
<p>128 enrolled analytical sites (since 2017) – Chantal Bon, Béatrice Guillemain</p> <p>Human citrated plasma (lyophilised), 1 mL</p> <p>4 surveys per year – 6 samples</p>		<p>€280</p> <p>A</p>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Rivaroxaban</div>		
Argatroban		ARGA
<p>18 enrolled analytical sites (since 2024) – Chantal Bon, Béatrice Guillemain</p> <p>Human citrated plasma (lyophilised), 1 mL</p> <p>4 surveys per year – 6 samples</p>		<p>€280</p>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Argatroban</div>		
Fibrin monomers		MONO
<p>88 enrolled analytical sites (since 2019) – Chantal Bon, Béatrice Guillemain</p> <p>Human citrated plasma (lyophilised), 1 mL</p> <p>4 surveys per year – 6 samples</p>		<p>€330</p> <p>A</p>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Fibrin monomers</div>		
Fibrin and fibrinogen degradation products		PDF
<p>26 enrolled analytical sites (since 2022) – Chantal Bon, Béatrice Guillemain</p> <p>Human citrated plasma (lyophilised), 1 mL</p> <p>4 surveys per year – 6 samples</p>		<p>€350</p>
<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 2px;">Quantitative FDP</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Semi-qualitative FDP</div>		
Anti-PF4 antibody analysis		TIH
<p>110 enrolled analytical sites (since 2022) – Chantal Bon, Béatrice Guillemain</p> <p>Human citrated plasma (ready-to-use liquid), 0.5 mL</p> <p>4 surveys per year – 8 samples</p>		<p>€270</p>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Anti-PF4 antibodies</div>		

 This scheme is only designed for immunological techniques (rapid and ELISA).

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

5 – SEROLOGY (Sub-family Infectious serology)

Anti-Aspergillus antibodies **FONG-Ac**

€200

⚠ Sample volume: if necessary, order an additional kit.
41 enrolled analytical sites (since 2021) – Estelle Bugni, Florence Persat
 Human serum (liquid), **0.35 mL**
4 surveys per year – 4 samples

⚠ Limited to mainland France

Anti-Aspergillus antibodies - quantitative	Anti-Aspergillus antibodies - qualitative
--	---

Aspergillus antigen in serum **FONG-Ag**

€210

42 enrolled analytical sites (since 2021) – Estelle Bugni, Florence Persat
 Human serum (lyophilised), **1 mL**
4 surveys per year – 6 samples

Aspergillus antigen - quantitative	Aspergillus antigen - qualitative
------------------------------------	-----------------------------------

Aspergillus antigen detection in BAL **FONG-LBA**

€200

39 enrolled analytical sites (since 2021) – Estelle Bugni, Florence Persat
 Human control BAL (ready-to-use liquid), **0.9 mL**
4 surveys per year – 4 samples

⚠ Limited to mainland France, not including Corsica

Aspergillus antigen - quantitative	Aspergillus antigen - qualitative
------------------------------------	-----------------------------------

Cryptococcus antigen in serum **CRYPTO**

€210

⚠ Sample volume: if necessary, order an additional kit.
52 enrolled analytical sites (since 2014) – Estelle Bugni, Florence Persat
 Human serum (lyophilised), **0.5 mL**
4 surveys per year – 4 samples

Cryptococcus antigen - detection	Cryptococcus antigen - titration
----------------------------------	----------------------------------

Syphilis serology **SYPHI**

€190

94 enrolled analytical sites (since 2015)
 Béatrice Guillemain, Laurence Parmeland, Chantal Roure-Sobas, Florian Scherrer, Valérie Verneau
 Human serum (lyophilised), **1 mL**
4 surveys per year – 6 samples

 Clinical Cases

Treponemal test (automated technique)	Non-treponemal test (manual technique)	Non-treponemal test (automated technique)	Interpretation
---------------------------------------	--	---	----------------

A

Lyme serology **LYME**

€205

46 enrolled analytical sites (since 2017) – Béatrice Guillemain, Chantal Roure-Sobas, Florian Scherrer
 Human serum (lyophilised), **1 mL**
4 surveys per year – 6 samples

 Clinical Cases

Screening tests IgG and IgM	Confirmation tests IgG and IgM	Interpretation
-----------------------------	--------------------------------	----------------

A

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

EQA – EXTERNAL QUALITY ASSESSMENT

6 – BACTERIOLOGY (Sub-family Bacteriology)

Bacteriology

BAC

57 enrolled analytical sites (since 2015)

€510

Béatrice Guillemain, Laurence Parmeland, Chantal Roure-Sobas, Florian Scherrer, Valérie Verneau

2 samples for urine culture, 2 samples for urine cytology and 4 bacterial strains

4 surveys per year – 8 samples

 Clinical Cases

 Limited to mainland France

Urine cytology	Bacterial identification	Antimicrobial susceptibility test	Resistance mechanism
----------------	--------------------------	-----------------------------------	----------------------

H. pylori breath test

 1 registration = 1 analyser = 1 box

HELI

19 enrolled analytical sites (since 2025) – Estelle Bugni, Bernard Poggi

€430

 Synthetic air labelled with ¹³C isotope

4 surveys per year – 8 samples

Delta Tube T0 Delta Tube T30	Difference T30-T0 (DOB)
---------------------------------	-------------------------

 This scheme is intended exclusively for tube-based techniques (not suitable for bag-based techniques).

7 – REPRODUCTIVE BIOLOGY (Sub-family Diagnostic semen analysis)

Semen analysis

SPE

23 enrolled analytical sites (since 2018) – André Force, Marie Lety, Benoit Schubert, Laetitia Selman

€1,500

 Human samples (liquid) (**0.2 mL**), digitalised smears and videos

4 surveys per year

 Clinical Cases

 Laboratories outside mainland France: please contact us.

Sperm concentration	Motility	Vitality	Morphology
Round cell concentration	1 survey per year		

 see IT prerequisites (page 5)

8 – MULTI-DISCIPLINARY (Biochemistry, haematology, haemostasis, serology)

Serum indices **Quantitative and semi quantitative analyses** **HIL**

700 enrolled analytical sites (since 2018) – Régine Cartier, Marie Lopez, Bernard Poggi, Laetitia Selman

€225

Human samples (lyophilised), **1 or 5 mL**

A

4 surveys per year – 8 samples

Haemolysis index	Icterus index	Lipaemia index
------------------	---------------	----------------

Suitable for all analysers carrying out serum index measurements (chemistry, haemostasis, serology devices, immunoassays modules, etc.).

Point-of-care testing **1 registration = 6 entries** **BD**

Chantal Bon, Marie Lopez, Bernard Poggi, Laetitia Selman

A Limited to mainland France, not including Corsica

3 cumulative options available:

Biochemistry / Haematology option **BDB**

276 enrolled analytical sites (since 2018)

1st box €285

Fresh human blood, ready-to-use, **1.2 mL, to be analysed preferably on day of receipt**

4 surveys per year – 4 samples

Additional box €240

Creatinine	Glucose	HbA1c	Lactate
CRP (Quantitative techniques)	hCG (Quantitative techniques)	Haemoglobin	Urea
CRP (Semi-quantitative techniques)	hCG (Qualitative techniques)	Haematocrit	

INR option **BDH**

27 enrolled analytical sites (since 2018)

1st box €295

Human plasma (ready-to-use liquid), **0.3 mL**

4 surveys per year – 6 samples

Additional box €225

INR

D-Dimers option **BDDI**

16 enrolled analytical sites (since 2025)

1st box €295

Human plasma (ready-to-use liquid), **0.5 mL**

4 surveys per year – 6 samples

Additional box €225

D-DIMERS

A : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at www.cofrac.fr)

The objective of this scheme is to assist laboratory with staff accreditation (laboratory biologists, technicians, laboratory medicine trainees) with regard to **initial qualification, maintenance of proficiency, and inter-operator comparability**. ProBioQual provides the evaluator (administrator) with:

- A complete file: digital slide, clinical context and, laboratory test results,
- A reference value and suggested acceptable limits, defined by ProBioQual’s expert laboratory biologists,
- A ‘model’ interpretation.

The medical laboratory is responsible for the accreditation of its staff. **ProBioQual allows the laboratory to choose the accreditation criteria for its staff.**

ProBioQual provides its expertise as an indication and offers an extraction of the tested individuals’ results in spreadsheet format for the laboratory.

HABI - Blood cytology	One registration = 15 entries (15 different users)	HCHF
<p>68 enrolled analytical sites (since 2018) – Laurent Jallades, Laetitia Selman</p> <p>HAEMOGRAM CYTOLOGY ON DIGITALISED MGG-STAINED BLOOD SMEARS</p> <p>6 digital blood smears provided in one delivery for the year</p>	<div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between;"> WBC differential Appearance of cellular elements Diagnostic hypothesis </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> Clinical cases €200 </div>
see IT prerequisites (page 5)		

HABI - CSF cytology	One registration = 15 entries (15 different users)	HCLCR
<p>24 enrolled analytical sites (since 2019) –Cécile Dumas, Laurent Jallades, Phillipe Joly, Laetitia Selman</p> <p>CYTOLOGY ON DIGITALISED MGG-STAINED OR WRIGHT GIEMSA-STAINED CYTOCENTRIFUGE SLIDES</p> <p>6 digital cytocentrifuge slides provided in one delivery for the year</p>	<div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between;"> Nucleated cell differential Diagnostic hypothesis </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> Clinical cases €200 </div>
see IT prerequisites (page 5)		

Summary results table with interpretation guide is available for download by the laboratory after entry.

The medical laboratory is in charge of accreditation according to its own criteria.

ProBioQual - GENERAL TERMS AND CONDITIONS

Any order implies unreserved acceptance of our general terms and conditions.

1- PRICE

Our prices are calculated as fairly as possible on the basis of our association's operating costs and the cost of preparing control samples.

All prices are given net of tax (VAT not applicable - Article 261 of the French Tax Code).

The price for registering for a scheme includes supply of the control specimens or digital media, statistical processing, appraisal by the expert laboratory biologists coordinating the scheme and the annual report.

The price indicated in the brochure corresponds to the number of surveys for each scheme. Optional free additional surveys, which may or may not be covered by the accreditation, may be proposed. In registering, you accept services that may not be covered by the accreditation.

For **one registration on an EQA scheme**, we will allocate you **two entries** allowing you to analyse two analytical systems (or two techniques) at a **same geographical laboratory site** (unless otherwise indicated in the EQA scheme documentation).

If you have more than two systems for assessment, you must proceed to one more registration (**one registration for every two analysers**), in conformity with French legislation.

2- PAYMENT TERMS

The payment terms available are cheque payable to ProBioQual or bank transfer to CCP LYON IBAN: FR70 20041 01007 0663730U038 65/BIC: PSSTFRPLYO (attach your bank's confirmation of payment).

Private laboratory: payment is due on registration.

Public hospital laboratory: payment is due on receipt of the invoice.

Bank fees and charges are payable by the ordering laboratory. Any bank fees charged to ProBioQual will be passed on to the ordering laboratory.

In case of late payment:

- A late payment fee equal to the statutory interest rate in force on the order date will be applied from the first day after payment is due, without any prior notice being required.
- The compensation for recovery costs is an amount of €40.00 (in compliance with French Decree 2012-1115 of 2 October 2012).
- ProBioQual reserves the right to suspend processing of ongoing schemes and block future registrations immediately without any delay.

3 - SHIPMENT - DELIVERY

→ DELIVERY COSTS TO MAINLAND FRANCE (INCLUDING CORSICA)

Shipping is free of charge for orders more than €800.

Orders less than €800: an amount delivery fee of €50 for shipment will be applied to each order.

→ DELIVERY COSTS OUTSIDE MAINLAND FRANCE (Subject to change)

A flat rate is applied on the basis of the geographical area. Please see the terms on your registration form.

Taxes, customs duties and dock dues:

For control samples sent outside the E.U., to French overseas departments and territories, to French territorial communities or to the Principality of Andorra, any customs duties, taxes, fees or charges associated with the importing of control samples shall be affected to the recipient on receipt of the package.

→ SHIPMENT

We will inform you by email when a control sample package is shipped. It is your responsibility to ensure correct receipt, particularly for laboratories outside mainland France (possible customs bottlenecks).

→ DELIVERY

The delivery address is the address for the reception of your package. It is recorded when you create your account and will be used for **all future deliveries**. It must be **as complete as possible** and specify, if applicable, the department, building, floor, etc. (**Laboratories in mainland France (including Corsica): do not use a PO box**).

In case of force majeure, ProBioQual cannot be held liable for the incomplete execution or non-execution of its obligations, nor delays, errors or damage associated with the supply and transport of the control samples.

→ PACKAGE RECEPTION

All packages must be verified on receipt. It is the recipient's responsibility to verify the delivery note and the condition of the control samples.

In case of claims or anomalies, the client must clearly make appear the necessary reservations on the delivery note, stating the damage or missing products.

All claims relating to deliveries (differences, missing or incorrect products, anomalies, etc.) must be notified by email to secretariat@probioqual.com within 72 hours of receipt of the delivery. After this period, the delivery will be considered compliant and no further claims may be filed.

4 - ORDER CANCELLATION

In conformity with our quality procedures and standard requirements, our control samples cannot be returned, exchanged or reimbursed for any reason after shipment.

5 – INTELLECTUAL PROPERTY AND COPYRIGHT

None of the media provided to participants in the context of ProBioQual's activities may be reproduced, in whole or in part, without the express permission of ProBioQual.

6 - CLAIMS

These general terms and conditions are subject to French law. All claims relating to commercial relationship are subject to the non-exclusive competence of the French courts and the Lyon Commercial Court.

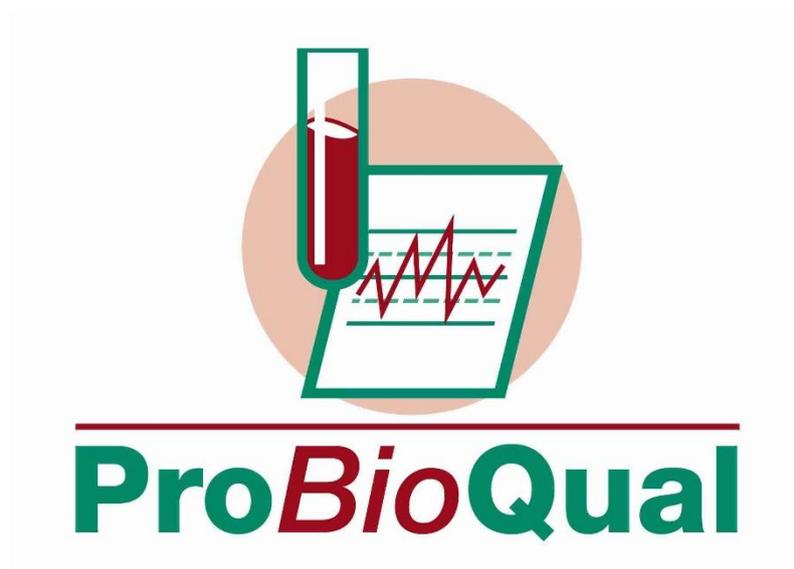
7 – DATA PROTECTION

The General Data Protection Regulation (GDPR) came into effect on 25 May 2018. ProBioQual updated its privacy policy accordingly. Please read our legal information and privacy policy available on our secure website.

If necessary, you can contact our DPO by email at dpo@probioqual.com.

ProBioQual reserves the right to use participants' results anonymously for the purposes of scientific publications or studies.

In accordance with Article L-6221-9, ProBioQual may transfer laboratory results to the Regional Health Agency (ARS) on its request. The laboratories will be informed in writing in this case before transmission of results to ARS. It is only applicable to clinical laboratory submitted to French Law.



ProBioQual

7, rue Antoine Lumière
69008 Lyon
France

Tel: +33 (0) 4 72 65 34 90

Fax: +33 (0) 4 78 85 97 77

Email: secretariat@probioqual.com Website: <https://www.probioqual.com>