



2027 BROCHURE

# External Quality Assessment Programs

FOR MEDICAL BIOLOGY LABORATORIES

ProBioQual has been providing quality control programs for medical biology laboratories **since 1972**.

|                                 |                                  |                           |                               |
|---------------------------------|----------------------------------|---------------------------|-------------------------------|
| <b>55</b><br>years of expertise | <b>1,329</b><br>analytical sites | <b>68</b><br>EQA programs | <b>379</b><br>tests monitored |
|---------------------------------|----------------------------------|---------------------------|-------------------------------|



REGISTRATION DEADLINE

**Thursday 8 October 2026**

Registration possible after this date but not guaranteed (limited stock).

Online registration  
[www.probioqual.com](http://www.probioqual.com)

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PROBIOQUAL BROCHURE 2027

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## *Dear colleague,*

**Committed for 55 years to the continuous improvement of quality in clinical laboratory science**, we are pleased to present our **2027 brochure**, which details all of our External Quality Assessment programs.

Our association reached a turning point in **2026 with the implementation of our new database**. This advancement allows us to adapt to developments in biology and to optimize the management of personnel involved in External Quality Assessments (EQAs) and of analyzers belonging to the same clinical laboratory in accordance with French legislation.

We also offer **practical tools to simplify the management of EQAs**, which are included in our program offerings:

- › **Direct electronic transmission of your LIS EQA results to the ProBioQual database** (in HPRIM, HL7, or CDA standard formats) via the MSSANTE, BIOSERVEUR, and APICRYPT platforms. **This service is free** and saves time while enhancing security (by reducing data entry errors).
- › **Improvements and updates to the “Single- or Multi-Site, Multi-Analyzer Comparability” tool**, including a **comprehensive report in PDF format** to supplement the comparability workbook.

In an effort to better meet your needs, new analytes—particularly calculated tests—are being added to existing panels. We are also offering a condensed panel for serum biochemistry (CQH Compact) in 2027, and for certain panels, we have optimized the number of surveys and samples to align with international recommendations regarding the frequency of EQA testing.

Regarding our pricing, **we are doing everything we can to limit price increases**. However, the purchase price of control materials has risen sharply for all our suppliers, despite intense negotiations, and represents a significant portion of the cost of our programs. The same is true for the **cost of shipping**.

**The October 8 registration deadline ensures your order is secured up to that date**, but we remind you that you can register **at any time throughout the year, while supplies last**.

Trusting that you will renew your confidence in us for 2027,  
Kind regards,

— Régine CARTIER and Bernard POGGI

# ABOUT THE ASSOCIATION

## QUALITY CONTROL AND STAFF COMPETENCE ASSISTANCE

A **pioneer** in quality control for medical biology testing, our association has been offering **External Quality Assessment** programs since **55 years** to help meet the requirements of standard **NF EN ISO 15189** and French law for medical biology laboratories.

ProBioQual offers external quality assessments for **379 laboratory tests** in **7 disciplines**. Some programs include tests from **multiple disciplines**( **serum indices, point-of-care testing**):

- Biochemistry
- Pharmacology - Toxicology
- Haematology
- Haemostasis
- Serology (bacteriology and mycology)
- Bacteriology
- Reproductive biology
- Multi-disciplinary

**68**

EQA programs



INCL.

**52**

programs accredited  
NF EN ISO/IEC 17043:2023



**2**

staff competence assistance  
programs



The **detailed alphabetical list of analytes** assessed in our 2027 programs is available on our website — on the home page and under the 'EQA' tab > 'List of analytes' > 'List of assessed analytes'.



## OUR STRENGTHS

- ISO 17043:2023 ACCREDITATION** — 52 of our 68 EQA programs are accredited to standard NF EN ISO/IEC 17043:2023.
 

Accreditation No. 1-5587  
scope available at [www.cofrac.fr](http://www.cofrac.fr)
- RELEVANT PEER GROUPS** — in 2026, **1,329 analytical sites** have placed their trust in us and take part in our programs.
- SPEED & RESPONSIVENESS** — **EQA statistical personalized reports sent by e-mail within 15 days** of the entry deadline.
- ISO 9001 CERTIFICATION** — our entire quality management system is certified, guaranteeing the reliability and continuous improvement of our services.
- RESULTS TRANSMISSION** — transmit your EQA results directly and **free of charge** in HPRIM, HL7 or CDA format, via **MSSanté**, Bioserveur or Apicrypt.
- EXPERIENCE & EXPERTISE** — more than **30 medical biologists**, volunteers or salaried, experts in their field, independently validate, interpret and comment on statistical reports. They are available to answer your questions.
- PBQ CONNECT - Member Area** — new **modernised** client interface: **secure personal account**, **analyser fleet management** per analytical site and **dynamic data-entry grids** tailored to EQA programs.
- INDEPENDENCE** — ProBioQual has no commercial policy and acts independently of all medical biology manufacturers and financial groups.
- INTER-ANALYSER COMPARABILITY** — Available **free of charge** to single- or multi-site laboratories that request it (form to be completed).

# PROGRAM IMPROVEMENTS AND MODIFICATIONS

## PROGRAM CHANGES FOR 2027

We draw your attention to the following key points regarding our 2027 programs:

### 3 IMPORTANT POINTS TO NOTE

Please note the following detailed information regarding the serum biochemistry programs. The comprehensive **CQH** program with 32 samples allows for the monitoring of a large number of analytes (66), including those that require special reagents: **neonatal bilirubin (representative concentrations), ammonia levels, specialized lipids (lp(a)...), and specific proteins**. For the most common tests (39), we offer a **more compact "CQHC" program** that includes **9 samples divided into 9 annual surveys**; the survey dates and control materials will be the same as those for the complete CQH program.

**EPS** This program includes the **typing of a monoclonal immunoglobulin**.

Several programs offer a **review of interpretation findings** based on clinical cases, which allows for a **post-analytical** evaluation. This is particularly true of the BAC, CLCR, CYTO, ELHB, LYME, SPERMIO and SYPHI programs.

### PROGRAM MODIFICATIONS IN 2027

These changes reflect most of your requests, which were made possible by our new IT system:

#### GENERAL & SPECIALISED BIOCHEMISTRY

**CQH** Evaluation of the results for the **anion gap, calculated osmolality, transferrin-binding capacity and free bilirubin**.  
**CQHC**

**CMU** Added the **Calcium/Creatinine and Phosphorus/Creatinine ratios, as well as the calculated osmolality**.

**FRUCTO** Added **Protein** and the **Fructosamine/Protein ratio**.

**CIMD** Added **HE4** and the **Free PSA/Total PSA ratio** (impedance, optical).

#### HAEMATOLOGY

**RETI** Add the analyte **Red Blood Cells**.

**NUM** **Removal of the NRBC Channel**, until a more suitable control material is found. This analyte was proposed in 2026, but unfortunately, the blood samples used do not meet our expectations.

# REGISTRATION PROCEDURES

## QUALITY CONTROL PROGRAMS

The registration form, the general terms and conditions of sale and this brochure form the basis of the contract. **ProBioQual** is a non-profit association (French law of 1<sup>st</sup> July 1901), registered with the Rhône Prefecture under number W691066392. **All prices are net** (VAT not applicable – art. 261 of the French General Tax Code). By registering, you accept all clauses of this document and our general terms and conditions of sale.



Register as early as possible — stock is guaranteed until **Thursday 8 October 2026**. After this date, registration remains possible but availability cannot be guaranteed.



## HOW TO REGISTER

### ✓ Laboratory already registered with ProBioQual

#### 1 Online (recommended)

Log in at [www.probioqual.com](http://www.probioqual.com) using your login details, menu 'Registration'.

You can:

- View previous orders,
- Create or edit an order,
- Save your order to a basket before confirming.

*An online registration guide is available on the website.*

#### 2 Postal mail

If you are unable to register online:

- Carefully complete the registration form received by post,
- Return the **ORIGINAL** form, **ALL** pages, by postal mail **ONLY**,
- Enclose a purchase order or payment.



### New laboratory



#### Contact us

Not **yet registered** with ProBioQual?  
The secretariat will guide you and send your registration form.

[secretariat@probioqual.com](mailto:secretariat@probioqual.com)



## REGISTRATION RULES

- › **No selection of participants** — registration is processed in **chronological order of receipt** (the sole criterion). A maximum number of participants may be set for certain programs for supply reasons.
- › **À la carte registration** — each program is independent (unless otherwise stated) and each laboratory is free to monitor the analytes of its choice.
- › The **laboratory code** assigned is linked to a **single geographical site**. Reports, registration certificates and annual summaries are attached to it. Transfer of samples between geographical sites is not permitted.
- › One registration allows monitoring on **2 analytical systems** (or 2 techniques) **at the same geographical site** (unless otherwise stated). Beyond 2 systems, an additional registration is required. We cannot be held liable if these instructions are not followed.



**Orders are confirmed by e-mail once validated by ProBioQual.** It is your responsibility to check that the confirmed order matches your requirements.



**To be processed**, the registration file must be **complete, clearly filled in and returned before Thursday 8 October 2026**. Late registration remains possible but ProBioQual cannot guarantee stock availability.

# PROGRAM LIST

## EQA & STAFF COMPETENCE PROGRAMS

### EXTERNAL QUALITY ASSESSMENT – EQA

HOW IT WORKS → P.8

| ● BIOCHEMISTRY              |       |                                                                              | p. |
|-----------------------------|-------|------------------------------------------------------------------------------|----|
| A                           | CQH   | Serum biochemistry (chemistry, lipids, specific proteins) +2                 | 11 |
| L                           | A     | FRUCTO Fructosamine +2                                                       | 11 |
| A                           | CQHC  | Compact serum biochemistry NEW                                               | 12 |
| A                           | CARD  | Cardiac markers                                                              | 12 |
| A                           | CPN   | Natriuretic peptides                                                         | 12 |
| A                           | PCT   | Procalcitonin                                                                | 12 |
| A                           | EPS   | Serum protein electrophoresis and monoclonal immunoglobulin typing           | 13 |
| A                           | MSMPO | Biochemical markers of fetal trisomy 21 risk                                 | 13 |
| A                           | ELHB  | Haemoglobin electrophoresis                                                  | 13 |
| A                           | HBA1C | Glycated haemoglobin                                                         | 14 |
| A                           | GDS   | Blood gas with electrolytes                                                  | 14 |
| L                           | A     | COOX CO-Oximetry                                                             | 14 |
|                             | CATE  | Catecholamines and plasma metabolites                                        | 15 |
| A                           | CIMD  | Tumour markers and general hormone testing +2                                | 15 |
| A                           | CIMB  | Gonadal peptides                                                             | 15 |
| A                           | CIME  | Specialised hormone testing (steroids, IGF-1 and IGFBP-3)                    | 16 |
| A                           | CIMF  | Specialised tumour markers                                                   | 16 |
| A                           | CIMG  | Glucagon                                                                     | 16 |
| A                           | CIMH  | ACTH                                                                         | 16 |
| A                           | CIMK  | Thyroid antibodies                                                           | 17 |
| A                           | CIMM  | Bone markers                                                                 | 17 |
| A                           | CIMN  | Calcitonin                                                                   | 17 |
| A                           | CIMR  | Renin and corticosteroids                                                    | 17 |
| A                           | CIMT  | Specialised hormone testing (free testosterone and gastrin)                  | 18 |
| A                           | CIMV  | Vitamin D                                                                    | 18 |
| A                           | CTX   | Cross Laps                                                                   | 18 |
| A                           | PREE  | Biological pre-eclampsia markers                                             | 19 |
| A                           | LCR   | Cerebrospinal fluid biochemistry                                             | 19 |
| A                           | CMU   | Urine biochemistry +2                                                        | 19 |
| A                           | CLAI  | Glomerular filtration rate (GFR) and chronic kidney disease (CKD) evaluation | 20 |
| A                           | CATU  | Catecholamines and urinary metabolites                                       | 20 |
| A                           | CLU   | Urinary free cortisol                                                        | 20 |
| ● PHARMACOLOGY - TOXICOLOGY |       |                                                                              | p. |
| A                           | CALC  | Blood alcohol                                                                | 21 |
| A                           | CMED  | Therapeutic drugs                                                            | 21 |
| A                           | TOXS  | Serum toxicology                                                             | 21 |
|                             | TOXU  | Urine toxicology                                                             | 22 |
|                             | ETG   | Urinary ethyl glucuronide                                                    | 22 |
|                             | COTI  | Urinary cotinine                                                             | 22 |

| ● HAEMATOLOGY                          |         |                                                           | p. |
|----------------------------------------|---------|-----------------------------------------------------------|----|
| A                                      | NUM     | Blood count (stabilised blood)                            | 23 |
| L                                      | A       | NFR Full blood count with reticulocyte count, fresh blood | 23 |
| L                                      | A       | RETI Reticulocyte count (stabilised blood) +1             | 23 |
| A                                      | VS      | Erythrocyte sedimentation rate (ESR)                      | 24 |
|                                        | CYTO    | Blood cytology on digital slides                          | 24 |
|                                        | CLCR    | CSF cytology on digital slides                            | 24 |
| ● HAEMOSTASIS                          |         |                                                           | p. |
| A                                      | HMPO    | Haemostasis                                               | 25 |
| A                                      | HPPO    | Heparin                                                   | 25 |
| A                                      | ACC     | Circulating anticoagulants                                | 25 |
| A                                      | HMDD    | D-dimers and Von Willebrand factor                        | 26 |
| A                                      | APIX    | Apixaban                                                  | 26 |
| A                                      | DANA    | Danaparoid                                                | 26 |
| A                                      | DABI    | Dabigatran                                                | 26 |
| A                                      | FONDA   | Fondaparinux                                              | 27 |
| A                                      | RIVA    | Rivaroxaban                                               | 27 |
|                                        | ARGA    | Argatroban                                                | 27 |
| A                                      | MONO    | Fibrin monomers                                           | 27 |
| A                                      | PDF     | Fibrin and fibrinogen degradation products                | 28 |
|                                        | TIH     | Anti-PF4 antibody testing                                 | 28 |
| ● SEROLOGY (BACTERIOLOGY AND MYCOLOGY) |         |                                                           | p. |
|                                        | FONGAC  | Anti-Aspergillus antibodies                               | 29 |
|                                        | FONGAG  | Aspergillus antigens in serum                             | 29 |
|                                        | FONGLBA | Aspergillus antigens in BAL                               | 29 |
|                                        | CRYPTO  | Cryptococcus antigens in serum                            | 30 |
| A                                      | SYPHI   | Syphilis serology                                         | 30 |
| A                                      | LYME    | Lyme serology                                             | 30 |
| ● BACTERIOLOGY                         |         |                                                           | p. |
|                                        | BAC     | Bacteriology                                              | 31 |
|                                        | HELI    | <sup>13</sup> C-urea breath test - <i>H. pylori</i>       | 31 |
| ● REPRODUCTIVE BIOLOGY                 |         |                                                           | p. |
|                                        | SPE     | Semen analysis                                            | 32 |
| ● MULTI-DISCIPLINARY                   |         |                                                           | p. |
| A                                      | HIL     | Serum indices                                             | 32 |
| A                                      | BD      | Point-of-care testing                                     | 33 |
| L                                      | A       | BDB Biochemistry / Haematology                            | 33 |
| L                                      | A       | BDDI D-Dimers                                             | 33 |
| L                                      | A       | BDH INR                                                   | 33 |

### STAFF COMPETENCE ASSISTANCE – HABI

HOW IT WORKS → P.34

| ● STAFF COMPETENCE ASSISTANCE |       |                           | p. |
|-------------------------------|-------|---------------------------|----|
|                               | HCHF  | HABI - Haemogram cytology | 35 |
|                               | HCLCR | HABI - CSF cytology       | 35 |

#### LEGEND

- NEW New program
- +N N new analytes
- L Conditional option



ISO 17043:2023 accredited program



Accreditation No. 1-5587  
scope available at [www.cofrac.fr](http://www.cofrac.fr)

# HOW EQA PROGRAMS WORK

## EXTERNAL QUALITY ASSESSMENT

ProBioQual supports you **throughout the year**: from control materials to the annual report, including the expertise of our biologists.



### OBJECTIVES AND PROCEDURES

**Assess the accuracy of your laboratory results** by participating in periodic blind surveys.

The **primary objective** of an external quality assessment (EQA) is to **provide participating clinical laboratories with evidence of the accuracy of their results** by participating in periodic **blind** surveys. This assessment helps ensure the validity of the results for each of the clinical laboratory tests evaluated by the EQA. It also provides evidence of the laboratories' competence.

An EQA allows participants to **detect anomalies** in order to implement appropriate **corrective actions**. It contributes to trend analysis as a complement to Internal Quality Control (IQC) and to the estimation of measurement uncertainty.

It is a quality improvement tool used to identify opportunities for improvement and to implement corrective actions as part of the laboratory's risk analysis.

For this irreplaceable improvement tool to fully achieve its objective, it is necessary that the **participation** of the LBMs be **honest**, that the educational aspect of the EQA be a priority, and that the EQA organizers be impartial.

Beyond providing information on the accuracy of results, the EQA is a fundamental educational tool for participants, particularly when programs include clinical cases and pre- or post-analytical assessments. The EQA helps maintain laboratory proficiency (ISO 15189 accreditation for clinical laboratories).

It is also a tool for post-market surveillance of DMDIVs and for reactovigilance.

Confidentiality guaranteed by an **anonymous code**, linked to a **single geographical site**. The reports, certificates and summaries are all attached to this laboratory code.

One registration covers **2 analytical systems (or 2 techniques)** at the same geographical site (except for the GDS, COOX, and HELI programs). Beyond that, an **additional registration** is required (except for the BD program, which covers 6 analytical systems per registration).

The **transfer of samples between sites is not permitted**; duplicate processing of the same sample is reserved for the same geographical site.

Personalized reports sent **by e-mail**, with the PDF attached. They can also be **downloaded at any time** from your **PBQ CONNECT** laboratory interface.



### CONTROL MATERIALS

#### MANUFACTURED PRODUCTS

Produced by manufacturers to our specifications and checked by ProBioQual.

#### FRESH HUMAN SAMPLES

Prepared and packaged by our teams.

#### DIGITAL MEDIA

Standardised slides, images and videos for remote analysis.



# HOW EQA PROGRAMS WORK (Continued)

## EXTERNAL QUALITY ASSESSMENT



### PROGRAM CYCLE

Registration for a quality control program is a **complete, indivisible service**. Here is how each cycle works:

1

#### PROGRAM LAUNCH

ProBioQual sends the registration confirmation via email. An email is sent notifying recipients that the program's technical note—which contains all the information needed to complete the EQA—is available. Information regarding the shipment of control materials (in one or more shipments) or the availability of digitized materials is also sent via email.

2

#### RESULTS SUBMISSION

The laboratory submits its results online before the entry deadline, in line with the schedule (a response form can be downloaded in the event of a technical problem).

**Manual entry in the member area or automatic data transfer — see the dedicated section on the next page..**

3

#### STATISTICAL PROCESSING AND REPORT

ProBioQual performs statistical analysis **by peer group ( $N \geq 7$ )** and for all results. A **customized report is sent within 15 days** of the data entry deadline. The report includes: score, z-score, bias, histogram, graphical tracking of the score and z-score, "Long-Term CV" and "Long-Term Bias," **overall statistics** (robust means & CVs, acceptability limits, Youden diagrams), and **interpretation and comments from expert biologists**. Results are evaluated (graded and z-scores are calculated) whenever possible.

4

#### PROGRAM CLOSE

At the end of the program, ProBioQual sends the participation certificate and the **annual report**: summary of scores, z-scores and bias per analyte, measurement uncertainty report.



**All year round** — download all your results and statistical values in Excel format from the member area.



Find full details of how our programs work on our website

<https://www.probioqual.com>

# PRACTICAL INFORMATION

CATALOGUE · AUTOMATIC RESULT TRANSMISSION · SYSTEM REQUIREMENTS

ProBioQual offers **68 external quality assessment programs** (including **52 accredited** under ISO/IEC 17043:2023), covering more than 370 tests across **7 disciplines**. Each card details the number of surveys and annual samples, control material type, number of participating sites, the number of result entries available, analytes assessed, coordinating expert biologists and pricing.

## HOW TO READ A PROGRAM CARD

✦ NEW 2027

**New program** — introduced this campaign.

NEW

**New analyte** — added to the program.

OPTION

**Conditional option** — registration in the indicated parent program is required.

NOT ACCREDITED

**Non-accredited analyte** — outside the scope of accreditation.



ISO 17043:2023 accredited — 52 of the 68 programs.



Accreditation No. 1-5587  
scope available at [www.cofrac.fr](http://www.cofrac.fr)



## FREE AUTOMATIC TRANSMISSION OF EQA RESULTS

Accepted formats: HPRIM · HL7 · CDA

✓ Free service

⌚ Time-saving

🛡️ Fewer entry errors

**Automatic transmission** of EQA results in **HPRIM**, **HL7** or **CDA** format is available for most **quantitative** analytes. This option does not apply to qualitative results (serology, bacteriology, identification of toxic substances, etc.). This service is **free**, provided your laboratory can transmit files via one of the following platforms:

MSSANTÉ

NEW

BIOERVEUR

APICRYPT

This transmission channel delivers your EQA results **exactly like your patient results**. HPRIM/HL7/CDA formats do not transmit techniques or instruments used: **check your codings** upon receipt of the entry acknowledgement email and correct them if necessary in your **PBQ Connect** member area. Laboratories outside France without access to these networks may transmit files by unencrypted email (exceptionally).



Full procedure in your **member area** (HPRIM menu). For any questions: [secretariat@probioqual.com](mailto:secretariat@probioqual.com)



## SYSTEM REQUIREMENTS FOR PROGRAMS ON VIRTUAL MEDIA

✓ **4 GB RAM** minimum — 8 GB recommended for better performance.

✓ **Resolution:** 1280 × 768 minimum — 1920 × 1080 recommended.

✓ **Bandwidth:** 10 Mbps minimum for smooth navigation.

✓ **Browser:** Chrome, Firefox, Edge or Safari — recent version.

### PROGRAMS ON VIRTUAL MEDIA

#### EQA

**CYTO** Blood cytology on digital slides

**CLCR** CSF cytology on digital slides

**SPE** Semen analysis

#### HABI

**HCLCR** CSF cytology

**HCHF** Haemogram cytology

# OUR EQA PROGRAMS

68 PROGRAMS ACROSS 7 DISCIPLINES



## BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

**CQH**  
since 1973

**Serum biochemistry (chemistry, lipids, specific proteins)**

**PROGRAM ACCREDITED**

**22** surveys / year  
**32** samples

Lyophilised or liquid human serum, 1 to 5 mL

**699** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (66 analytes)
 

- 5'-nucleotidase
- Uric acid
- Total bile acids
- ALT (SGPT)
- Albumin
- Alpha 1 antitrypsin
- Alpha 2 macroglobulin
- Ammonia **6 surveys/year**
- Amylase
- Apolipoprotein A1
- Apolipoprotein A2 **4 surveys/year**
- Apolipoprotein B
- Apolipoprotein C2 **4 surveys/year**
- Apolipoprotein C3 **4 surveys/year**
- AST (SGOT)
- Bicarbonate
- Conjugated bilirubin
- Free bilirubin
- Total bilirubin
- Total neonatal bilirubin** **4 surveys/year**
- Calcium
- Total transferrin-binding capacity **NEW**
- Ceruloplasmin
- Kappa free light chains
- Lambda free light chains
- Chloride
- HDL-cholesterol
- LDL-cholesterol
- Free cholesterol **4 surveys/year**
- Total cholesterol
- CK
- Transferrin saturation
- Complement C3
- Complement C4
- Creatinine
- CRP
- Cystatin C
- Rheumatoid factor (Autoimmunity)
- Iron
- Ferritin
- GGT
- Glucose
- Haptoglobin
- IgA
- IgG
- IgM
- Lactate
- LDH
- Lipase
- Lipoprotein (a) **4 surveys/year**
- Magnesium
- Orosomucoid (alpha-1-acid glycoprotein)
- Osmolality (calculated or measured)
- ALP
- Phosphate
- Phospholipids **4 surveys/year**
- Potassium
- Prealbumin (transthyretin)
- Total protein
- Soluble transferrin receptors
- Retinol-binding protein (RBP)
- Sodium
- Transferrin
- Triglycerides
- Anion gap **NEW**
- Urea

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Régine CARTIER ♦ Christine LOMBARD ♦ Estelle BUGNI ♦ Laurent DESMURS ♦ Patric DELISLE

**1ST KIT**  
**590 €**

**ADDITIONAL KIT**  
**550 €**



**FRUCTO**  
since 2021

**Fructosamine**

**PROGRAM ACCREDITED**

**OPTION** Conditional on mandatory registration in program **CQH**

**4** surveys / year  
**4** samples

Lyophilised preparations, 1 mL

**45** analytical sites

**2** result entries

**ANALYTES ASSESSED** (3 analytes)
 

- Fructosamine
- Total protein **NEW**
- Fructosamine/protein ratio **NEW**

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Régine CARTIER ♦ Estelle BUGNI ♦ Laurent DESMURS ♦ Patric DELISLE

**PRICE**  
**190 €**



# BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

## CQHC | Compact serum biochemistry

+ NEW 2027

PROGRAM  
ACCREDITED9 surveys / year  
9 samplesLyophilised or liquid human serum, 5 mL  
Same materials and survey dates as the **CQH** program

2 result entries



### ANALYTES ASSESSED (39 analytes)

- Uric acid
- Total bile acids
- ALT (SGPT)
- Albumin
- Amylase
- AST (SGOT)
- Bicarbonate
- Conjugated bilirubin
- Free bilirubin
- Total bilirubin
- Calcium
- Total transferrin-binding capacity
- Chloride
- HDL-cholesterol
- LDL-cholesterol
- Total cholesterol
- CK
- Transferrin saturation
- Creatinine
- CRP (4 surveys/year)
- Iron
- GGT
- Glucose
- Lactate
- LDH
- Lipase
- Magnesium
- Osmolality (calculated or measured)
- ALP
- Phosphate
- Potassium
- Prealbumin (transthyretin) (4 surveys/year)
- Total protein
- Sodium
- Transferrin
- Triglycerides
- Anion gap
- Urea



### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Régine CARTIER ♦ Christine LOMBARD ♦ Estelle BUGNI ♦ Laurent DESMURS ♦ Patric DELISLE

PRICE  
310 €

## CARD since 2002

### Cardiac markers

PROGRAM  
ACCREDITED4 surveys / year  
7 samples

Lyophilised human serum, 2 or 3 mL



698 registered analytical sites



2 result entries



### ANALYTES ASSESSED (4 analytes)

- Homocysteine
- Myoglobin
- Troponin I
- Troponin T



### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Bernard POGGI ♦ Delphine COLLIN-CHAVAGNAC ♦ Charlotte CUERQ ♦ Béatrice GUILLEMIN ♦ Adeline MAITTE

PRICE  
235 €

## CPN since 2008

### Natriuretic peptides

PROGRAM  
ACCREDITED4 surveys / year  
6 samples

Lyophilised human serum, 2 mL



626 registered analytical sites



2 result entries



### ANALYTES ASSESSED (2 analytes)

- BNP
- NT-proBNP



### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Bernard POGGI ♦ Delphine COLLIN-CHAVAGNAC ♦ Charlotte CUERQ ♦ Béatrice GUILLEMIN ♦ Adeline MAITTE

PRICE  
335 €

## PCT since 2010

### Procalcitonin

PROGRAM  
ACCREDITED4 surveys / year  
6 samples

Lyophilised human serum, 1 mL



569 registered analytical sites



2 result entries



### ANALYTES ASSESSED (2 analytes)

- Quantitative procalcitonin
- Semi-quantitative procalcitonin



### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Bernard POGGI ♦ Sabine ZAEPEL ♦ Béatrice GUILLEMIN ♦ Adeline MAITTE

PRICE  
220 €



# BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

**EPS**  
since 2012

**Serum protein electrophoresis and monoclonal immunoglobulin typing**

PROGRAM ACCREDITED

**6** surveys / year  
**6** samples

Lyophilised human serum, 1 mL

**357** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (8 analytes)
 

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

**PROGRAM DETAILS**

Clinical cases included

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Christine LOMBARD ♦ Béatrice GUILLEMIN ♦ Magali DECHOMET

PRICE **275 €**

**MSMPO**  
since 2011

**Biochemical markers of fetal trisomy 21 risk**

PROGRAM ACCREDITED

**4** surveys / year  
**6** samples

Lyophilised human serum, 1 mL

**60** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (11 analytes)
 

- AFP (kUI/L and MoM)
- Estriol (nmol/L and MoM)
- Total hCG (UI/L and MoM)
- PAPP-A (mUI/L and MoM)
- Free beta-hCG (UI/L and MoM)
- Calculation of Combined Risk in the 1st Quarter
- Risk Calculation for the 2nd Quarter
- Calculation of Late-Filing Risk
- Risk Classification for the 1st Quarter
- Risk Classification in the 2nd Quarter
- Categorization of Overdue Risk

**PROGRAM DETAILS**

Demographic data included

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Magali PETTAZZONI ♦ Laetitia SELMAN ♦ David CHEILLAN

PRICE **620 €**

**ELHB**  
since 2011

**Haemoglobin electrophoresis**

PROGRAM ACCREDITED

**4** surveys / year  
**6** samples

Lyophilised human blood, 0.5 mL

**114** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (2 analytes)
 

- Haemoglobin electrophoretic fractions
- Haemoglobin electrophoresis conclusion

**PROGRAM DETAILS**

Clinical cases included

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Philippe JOLY ♦ Louis LACAILLE ♦ Laetitia SELMAN

PRICE **320 €**



# BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

**HBA1C**  
since 2009

Glycated haemoglobin

PROGRAM ACCREDITED

4 surveys / year  
6 samples

Lyophilised human blood, 0.3 or 0.5 mL

411 registered analytical sites

2 result entries

**ANALYTES ASSESSED** (1 analyte)
 

- HbA1c

**PROGRAM DETAILS**

This program includes a survey proposed by a European EQA program.

This program is not compatible with Afinion (ABBOTT) instruments. Registration for the BD program is possible.

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Bernard POGGI ♦ Philippe JOLY ♦ Louis LACAILLE ♦ Charlotte CUERQ ♦ Laetitia SELMAN

**PRICE**  
**285 €**

**GDS**  
since 2013

Blood gas with electrolytes

PROGRAM ACCREDITED

4 surveys / year  
6 samples

Ready-to-use ampoules

547 registered analytical sites

1 result entry

**ANALYTES ASSESSED** (12 analytes)
 

- Bicarbonate
- Ionised calcium
- Chloride
- Total CO<sub>2</sub>
- Creatinine
- Glucose
- Lactate
- pCO<sub>2</sub>
- pH
- pO<sub>2</sub>
- Potassium
- Sodium

**PROGRAM DETAILS**

1 registration = 1 analyser = 1 kit

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Régine CARTIER ♦ Bernard POGGI ♦ Isabelle QUADRIO ♦ Béatrice GUILLEMIN

**1ST KIT**  
**130 €**

**ADDITIONAL KIT**  
**100 €**

**COOX**  
since 2017

CO-Oximetry

**OPTION** Conditional on mandatory registration in program **GDS**

4 surveys / year  
4 samples

Ampoules to be activated

445 analytical sites

1 result entry

**ANALYTES ASSESSED** (5 analytes)
 

- Carboxyhaemoglobin
- Measured total haemoglobin
- Methaemoglobin
- Oxyhaemoglobin (O2Hb or fractional oxyhaemoglobin saturation)
- Measured functional saturation SO2

**PROGRAM DETAILS**

1 registration = 1 analyser = 1 kit

This option is not suitable for Cobas b123 (ROCHE) instruments

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Régine CARTIER ♦ Bernard POGGI ♦ Isabelle QUADRIO ♦ Béatrice GUILLEMIN

**1ST KIT**  
**185 €**

**ADDITIONAL KIT**  
**130 €**



# BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**
**CATE**  
since 2017

## Catecholamines and plasma metabolites


**4** surveys / year  
**6** samples

 Lyophilised human plasma and serum, 3 or **5 mL**

**32** registered analytical sites

**2** result entries


### ANALYTES ASSESSED (11 analytes)

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


**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
Estelle BUGNI ♦ Laetitia SELMAN

**PRICE**  
**280 €**
**CIMD**  
since 1977

## Tumour markers and general hormone testing

 PROGRAM  
**ACCREDITED**

**6** surveys / year  
**9** samples

 Lyophilised human serum, **3 mL**

**697** registered analytical sites

**2** result entries


### ANALYTES ASSESSED (32 analytes)

- CEA
- AFP
- CA 125
- CA 15-3
- CA 19-9
- Cortisol
- Dihydrotestosterone (DHT)
- EPO
- Estradiol
- Ferritin
- Folate
- FSH
- GH
- Total hCG
- HE4 **NEW** **NOT ACCREDITED**
- Total IgE (Allergy)
- Insulin
- LH
- Parathyroid hormone
- C-peptide
- Progesterone
- Prolactin
- S100B protein
- Free PSA
- Total PSA
- Free/total PSA ratio **NEW**
- Free T3
- Free T4
- Testosterone
- TSH
- Vitamin B12
- Beta 2 microglobulin



### PROGRAM DETAILS

Check the sample volume – order an additional kit if needed


**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
Marie LOPEZ ♦ Laetitia SELMAN

**1ST KIT**  
**500 €**
**ADDITIONAL KIT**  
**300 €**
**CIMB**  
since 2013

## Gonadal peptides

 PROGRAM  
**ACCREDITED**

**6** surveys / year  
**9** samples

 Lyophilised human serum, **1 mL**

**115** registered analytical sites

**2** result entries


### ANALYTES ASSESSED (2 analytes)

- AMH
- Inhibin B


**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
Marie LOPEZ ♦ Laetitia SELMAN

**PRICE**  
**500 €**



# BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

**CIME**  
since 2013

**Specialised hormone testing (steroids, IGF-1 and IGFBP-3)**

PROGRAM ACCREDITED

6 surveys / year  
9 samples

Lyophilised human serum, 3 mL

133 registered analytical sites

2 result entries

**ANALYTES ASSESSED** (8 analytes)
 

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

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Marie LOPEZ ♦ Laetitia SELMAN

PRICE  
**380 €**

**CIMF**  
since 2013

**Specialised tumour markers**

PROGRAM ACCREDITED

6 surveys / year  
9 samples

Lyophilised human serum, 1 mL

164 registered analytical sites

2 result entries

**ANALYTES ASSESSED** (5 analytes)
 

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

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Marie LOPEZ ♦ Laetitia SELMAN

PRICE  
**285 €**

**CIMG**  
since 2013

**Glucagon**

PROGRAM ACCREDITED

6 surveys / year  
9 samples

Lyophilised human serum, 1 mL

10 registered analytical sites

2 result entries

**ANALYTES ASSESSED** (1 analyte)
 

- Glucagon

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Marie LOPEZ ♦ Laetitia SELMAN

PRICE  
**395 €**

**CIMH**  
since 2013

**ACTH**

PROGRAM ACCREDITED

6 surveys / year  
9 samples

Lyophilised human serum, 1 mL

125 registered analytical sites

2 result entries

**ANALYTES ASSESSED** (1 analyte)
 

- ACTH

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Marie LOPEZ ♦ Laetitia SELMAN ♦ Adeline MAITTE

PRICE  
**270 €**





## BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

|                                                                                                                                                                                                                                                             |                               |                                 |                  |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|------------------|-----------------------|
| <b>CIMK</b><br>since 2024                                                                                                                                                                                                                                   |                               | <b>Thyroid antibodies</b>       |                  | PROGRAM ACCREDITED    |
| 6 surveys / year<br>9 samples                                                                                                                                                                                                                               | Lyophilised human serum, 1 mL | 281 registered analytical sites | 2 result entries |                       |
| <b>ANALYTES ASSESSED</b> (3 analytes) <ul style="list-style-type: none"> <li>Anti-thyroglobulin antibody (Autoimmunity)</li> <li>Anti-thyroperoxidase antibody (Autoimmunity)</li> <li>Thyrotropin receptor autoantibodies (TRAb) (Autoimmunity)</li> </ul> |                               |                                 |                  |                       |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Marie LOPEZ ♦ Laetitia SELMAN ♦ Adeline MAITTE                                                                                                                                                           |                               |                                 |                  | <b>PRICE</b><br>370 € |

|                                                                                                                                                               |                               |                                |                  |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|------------------|-----------------------|
| <b>CIMM</b><br>since 2024                                                                                                                                     |                               | <b>Bone markers</b>            |                  | PROGRAM ACCREDITED    |
| 6 surveys / year<br>9 samples                                                                                                                                 | Lyophilised human serum, 1 mL | 65 registered analytical sites | 2 result entries |                       |
| <b>ANALYTES ASSESSED</b> (3 analytes) <ul style="list-style-type: none"> <li>Osteocalcin</li> <li>P1NP</li> <li>Bone-specific alkaline phosphatase</li> </ul> |                               |                                |                  |                       |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Marie LOPEZ ♦ Laetitia SELMAN                                                                              |                               |                                |                  | <b>PRICE</b><br>365 € |

|                                                                                                   |                               |                                |                  |                       |
|---------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|------------------|-----------------------|
| <b>CIMN</b><br>since 2013                                                                         |                               | <b>Calcitonin</b>              |                  | PROGRAM ACCREDITED    |
| 6 surveys / year<br>12 samples                                                                    | Lyophilised human serum, 1 mL | 70 registered analytical sites | 2 result entries |                       |
| <b>ANALYTES ASSESSED</b> (1 analyte) <ul style="list-style-type: none"> <li>Calcitonin</li> </ul> |                               |                                |                  |                       |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Marie LOPEZ ♦ Laetitia SELMAN                  |                               |                                |                  | <b>PRICE</b><br>280 € |

|                                                                                                                                                                                           |                               |                                  |                  |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|------------------|-----------------------|
| <b>CIMR</b><br>since 2013                                                                                                                                                                 |                               | <b>Renin and corticosteroids</b> |                  | PROGRAM ACCREDITED    |
| 6 surveys / year<br>12 samples                                                                                                                                                            | Lyophilised human serum, 1 mL | 70 registered analytical sites   | 2 result entries |                       |
| <b>ANALYTES ASSESSED</b> (5 analytes) <ul style="list-style-type: none"> <li>11-deoxycortisol</li> <li>PRA</li> <li>Corticosterone</li> <li>Deoxycorticosterone</li> <li>Renin</li> </ul> |                               |                                  |                  |                       |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Marie LOPEZ ♦ Laetitia SELMAN                                                                                                          |                               |                                  |                  | <b>PRICE</b><br>250 € |



# BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

|                                                                                                                            |                                                                    |                                       |                         |                              |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------|-------------------------|------------------------------|
| <b>CIMT</b><br><small>since 2013</small>                                                                                   | <b>Specialised hormone testing (free testosterone and gastrin)</b> |                                       |                         | <b>PROGRAM ACCREDITED</b>    |
| <b>6</b> surveys / year<br><b>12</b> samples                                                                               | Lyophilised human serum, 1 mL                                      | <b>15</b> registered analytical sites | <b>2</b> result entries |                              |
| <b>ANALYTES ASSESSED</b> (2 analytes) <ul style="list-style-type: none"> <li>Gastrin</li> <li>Free testosterone</li> </ul> |                                                                    |                                       |                         |                              |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Marie LOPEZ ♦ Laetitia SELMAN                                           |                                                                    |                                       |                         | <b>PRICE</b><br><b>320 €</b> |

|                                                                                                                                                    |                               |                                        |                         |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|-------------------------|------------------------------|
| <b>CIMV</b><br><small>since 2013</small>                                                                                                           | <b>Vitamin D</b>              |                                        |                         | <b>PROGRAM ACCREDITED</b>    |
| <b>6</b> surveys / year<br><b>9</b> samples                                                                                                        | Lyophilised human serum, 1 mL | <b>417</b> registered analytical sites | <b>2</b> result entries |                              |
| <b>ANALYTES ASSESSED</b> (2 analytes) <ul style="list-style-type: none"> <li>1-25 (OH)<sub>2</sub> vitamin D</li> <li>25-(OH) vitamin D</li> </ul> |                               |                                        |                         |                              |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Marie LOPEZ ♦ Laetitia SELMAN ♦ Adeline MAITTE                                                  |                               |                                        |                         | <b>PRICE</b><br><b>290 €</b> |

|                                                                                                         |                               |                                       |                         |                              |
|---------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|-------------------------|------------------------------|
| <b>CTX</b><br><small>since 2024</small>                                                                 | <b>Cross Laps</b>             |                                       |                         | <b>PROGRAM ACCREDITED</b>    |
| <b>4</b> surveys / year<br><b>6</b> samples                                                             | Lyophilised human serum, 1 mL | <b>61</b> registered analytical sites | <b>2</b> result entries |                              |
| <b>ANALYTES ASSESSED</b> (1 analyte) <ul style="list-style-type: none"> <li>CTX (Cross Laps)</li> </ul> |                               |                                       |                         |                              |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Marie LOPEZ ♦ Laetitia SELMAN                        |                               |                                       |                         | <b>PRICE</b><br><b>320 €</b> |



# BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

**PREE**  
since 2020

**Biological pre-eclampsia markers**

PROGRAM ACCREDITED

**4** surveys / year  
**6** samples

Lyophilised human serum, 1 mL

**47** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (5 analytes)
 

- 1st-Quarter pre-eclampsia risk estimate
- PAPP-A
- PlGF (pg/mL and MoM)
- sFlt-1/PlGF ratio (3rd-Quarter pre-eclampsia risk estimate)
- sFlt-1

**PROGRAM DETAILS**

Demographic data included

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Bernard POGGI ♦ Magali PETTAZZONI ♦ Louis LACAILLE ♦ Laetitia SELMAN

PRICE **425 €**

**LCR**  
since 2017

**Cerebrospinal fluid biochemistry**

PROGRAM ACCREDITED

**4** surveys / year  
**6** samples

Cerebrospinal fluids liquid form, 3 mL

**399** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (9 analytes)
 

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

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Bernard POGGI ♦ Isabelle QUADRIO ♦ Béatrice GUILLEMIN ♦ Adeline MAITTE

PRICE **250 €**

**CMU**  
since 1986

**Urine biochemistry**

PROGRAM ACCREDITED

**6** surveys / year  
**12** samples

Lyophilised human urine, 5 mL

**617** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (20 analytes)
 

- Uric acid
- Albumin (microalbumin)
- Beta-2 microglobulin **NOT ACCREDITED**
- Calcium
- Chloride
- Creatinine
- Urine specific gravity **NOT ACCREDITED**
- Glucose
- Magnesium
- Osmolality (calculated or measured)
- Urine pH **NOT ACCREDITED**
- Phosphate
- Potassium
- Total protein
- Albumin/creatinine ratio
- Calcium/creatinine ratio **NEW**
- Phosphate/creatinine ratio **NEW**
- Protein/creatinine ratio
- Sodium
- Urea

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Bernard POGGI ♦ Sabine ZAEFFEL ♦ Estelle BUGNI ♦ Patric DELISLE

PRICE **300 €**



# BIOCHEMISTRY

32 EQA PROGRAMS

Sub-family: **General & specialised biochemistry**

**CLAI**  
since 2008

**Glomerular filtration rate (GFR) and chronic kidney disease (CKD) evaluation**

PROGRAM ACCREDITED

**5** surveys / year  
**14** samples

6 lyophilised human serums and 6 human urines (1 mL) + 2 fresh human samples, 1 serum (0.5 mL) and 1 urine (1.5 mL)

**220** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (9 analytes)
 

- Urinary albumin (Microalbumin)
- GFR evaluation: CKD-EPI
- Creatinine clearance, measured
- Serum creatinine
- Urinary creatinine
- Cystatin C
- GFR evaluation: EKFC
- GFR evaluation: KFRE
- Albumin/creatinine ratio

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Bernard POGGI ♦ Sabine ZAEPEL ♦ Estelle BUGNI ♦ Patric DELISLE

**PRICE**  
**165 €**

**CATU**  
since 1983

**Catecholamines and urinary metabolites**

PROGRAM ACCREDITED

**6** surveys / year  
**12** samples

Lyophilised human urine, 5 mL

**46** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (13 analytes)
 

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

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Estelle BUGNI ♦ Laetitia SELMAN

**1ST KIT**  
**310 €**

**ADDITIONAL KIT**  
**250 €**

**CLU**  
since 1983

**Urinary free cortisol**

PROGRAM ACCREDITED

**4** surveys / year  
**8** samples

Lyophilised human urine, 1 mL

**64** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (2 analytes)
 

- Free cortisol
- Urinary creatinine

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Marie LOPEZ ♦ Estelle BUGNI ♦ Laetitia SELMAN

**PRICE**  
**250 €**



# PHARMACOLOGY - TOXICOLOGY

Sub-family: **Pharmacology - Toxicology**

6 EQA PROGRAMS

**CALC**  
since 2000

**Blood alcohol**

PROGRAM ACCREDITED

4 surveys / year  
6 samples

Ready-to-use animal-derived serum (5 mL)

468 registered analytical sites

2 result entries

**ANALYTES ASSESSED** (1 analyte)
 

- Ethanol

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Sabine COHEN ♦ Antony CITTERIO-QUENTIN ♦ Estelle BUGNI ♦ Patric DELISLE

PRICE 145 €

**CMED**  
since 1993

**Therapeutic drugs**

PROGRAM ACCREDITED

4 surveys / year  
6 samples

Lyophilised human serum, 5 mL

418 registered analytical sites

2 result entries

**ANALYTES ASSESSED** (18 analytes)
 

- Valproic acid
- Amikacin
- Caffeine
- Carbamazepine
- Ciclosporin
- Digoxin
- Gentamicin
- Lamotrigine
- Levetiracetam
- Lithium
- Methotrexate
- Phenobarbital
- Phenytoin
- Tacrolimus
- Teicoplanin
- Theophylline
- Tobramycin
- Vancomycin

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Sabine COHEN ♦ Antony CITTERIO-QUENTIN ♦ Estelle BUGNI ♦ Patric DELISLE

PRICE 230 €

**TOXS**  
since 2012

**Serum toxicology**

PROGRAM ACCREDITED

4 surveys / year  
6 samples

Lyophilised human serum, 5 mL

321 registered analytical sites

2 result entries

**ANALYTES ASSESSED** (5 analytes)
 

- Tricyclic antidepressants
- Barbiturates
- Benzodiazepines
- Paracetamol
- Salicylates

+ all molecules (therapeutic drugs or drugs of abuse) detected by chromatographic methods

**PROGRAM DETAILS**

Clinical cases included

Qualitative and quantitative analyses

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Christophe DOCHE ♦ Sabine COHEN ♦ Antony CITTERIO-QUENTIN

PRICE 205 €



# PHARMACOLOGY - TOXICOLOGY

Sub-family: **Pharmacology - Toxicology**

6 EQA PROGRAMS

**TOXU**  
since 2007

## Urine toxicology


**4** surveys / year  
**4** samples
Lyophilised human urine, **5 mL**
**528**  
registered analytical sites

**2**  
result entries


### ANALYTES ASSESSED (12 analytes)

- Amphetamines
- Tricyclic antidepressants
- Barbiturates
- Benzodiazepines
- Buprenorphine
- Cannabis
- Cocaine
- Ecstasy
- EDDP
- Methadone
- Methamphetamine
- Opiates

+ other potentially toxic molecules detected by chromatographic methods



### PROGRAM DETAILS



Clinical cases included



Qualitative and/or quantitative analyses



### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Christophe DOCHE ♦ Sabine COHEN ♦ Antony CITTERIO-QUENTIN


**PRICE**  
**180 €**
**ETG**  
since 2024

## Urinary ethyl glucuronide


**4** surveys / year  
**6** samples
Lyophilised human urine, **1 or 5 mL**
**16**  
registered analytical sites

**2**  
result entries


### ANALYTES ASSESSED (1 analyte)

- Urinary ethylglucuronide



### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Bernard POGGI ♦ Estelle BUGNI ♦ Patric DELISLE


**PRICE**  
**220 €**
**COTI**  
since 2004

## Urinary cotinine


**4** surveys / year  
**6** samples
Lyophilised human urine, **1.5 mL**
**62**  
registered analytical sites

**2**  
result entries


### ANALYTES ASSESSED (2 analytes)

- Quantitative cotinine
- Qualitative cotinine



### PROGRAM DETAILS



Check the sample volume — order an additional kit if needed



### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Bernard POGGI ♦ Estelle BUGNI ♦ Patric DELISLE


**PRICE**  
**190 €**



# HAEMATOLOGY

6 EQA PROGRAMS

Sub-family: **Haematocytology**

**NUM**  
since 2009

**Blood count (stabilised blood)**

PROGRAM ACCREDITED

**4** surveys / year  
**8** samples

Ready-to-use stabilised blood (human red cells, mammalian leukocytes/platelets), 2 mL

**468** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (10 analytes)
 

- MCHC
- RBC (impedance and optical)
- Haematocrit
- Haemoglobin
- RDW
- Leukocytes
- Platelets (impedance and optical)
- MCH
- MCV
- MPV

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Estelle BUGNI ♦ Patric DELISLE ♦ Charlotte DE BEAUVOIR ♦ Rémy FAVRE

PRICE **350 €**

**NFR**  
since 2011

**Full blood count with reticulocyte count, fresh blood**

PROGRAM ACCREDITED

**OPTION** Conditional on mandatory registration in program **NUM**

**4** surveys / year  
**4** samples

Fresh human blood, 1 mL samples

**401** analytical sites

**2** result entries

**ANALYTES ASSESSED** (18 analytes)
 

- MCHC
- Erythroblasts (analyser and microscope) **NOT ACCREDITED**
- Immature platelet fraction (IPF)
- Immature reticulocyte fraction (IRF)
- Leukocyte differential (analyser and microscope)
- RBC (impedance and optical)
- Haematocrit
- Haemoglobin
- RDW
- Leukocytes (analyser and microscope)
- Myeloma (analyser and microscope) **NOT ACCREDITED**
- Platelets (impedance, optical, fluorescence and microscope)
- Reticulocytes (analyser and microscope)
- MCH (impedance and optical)
- Reticulocyte haemoglobin content (RET-He)
- MCV
- RBC most frequent volume (R-MFV)
- MPV

**PROGRAM DETAILS**

- Limited to Metropolitan France, excluding Corsica
- Samples delivered within 24h, preferably analysed on the day of receipt

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Estelle BUGNI ♦ Patric DELISLE ♦ Charlotte DE BEAUVOIR ♦ Rémy FAVRE

PRICE **285 €**

**RETI**  
since 2015

**Reticulocyte count (stabilised blood)**

PROGRAM ACCREDITED

**OPTION** Conditional on mandatory registration in program **NUM**

**2** surveys / year  
**4** samples

Ready-to-use blood of animal and human origin, 3 mL

**222** analytical sites

**2** result entries

**ANALYTES ASSESSED** (2 analytes)
 

- Reticulocytes
- RBC (impedance and optical) **NEW**

**PROGRAM DETAILS**

- For a wider panel of reticulocyte concentrations, combining the NFR and RETI options is recommended

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Estelle BUGNI ♦ Patric DELISLE ♦ Charlotte DE BEAUVOIR ♦ Rémy FAVRE

PRICE **225 €**



# HAEMATOLOGY

6 EQA PROGRAMS

Sub-family: **Haematocytology**

**VS**  
since 2012

**Erythrocyte sedimentation rate (ESR)**

PROGRAM ACCREDITED

**4** surveys / year  
**8** samples

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

**100** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (1 analyte)
 

- Erythrocyte sedimentation rate, 1st hour

**PROGRAM DETAILS**

These samples are not compatible with techniques measuring red blood cell aggregation capacity by photometry: ALIFAX (ROLLER 10/ROLLER 20/JO-PLUS and TEST1), ALCOR Scientific (ISED and miniISED), MINDRAY BC-780...

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Estelle BUGNI ♦ Patric DELISLE ♦ Charlotte DE BEAUVOIR ♦ Rémy FAVRE

PRICE  
**250 €**

**CYTO**  
since 2015

**Blood cytology on digital slides**

**4** surveys / year  
**8** blood smears

Virtual material: Blood smears stained with MGG and digitised

**50** registered analytical sites

**2** result entries

**ANALYTES ASSESSED**

- Leukocyte differential
- Cellular element morphology (white blood cells, red blood cells and platelets)
- Diagnostic hypothesis

**PROGRAM DETAILS**

Clinical cases included

See IT prerequisites (see p. 10)

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Charlotte DE BEAUVOIR ♦ Rémy FAVRE ♦ Laetitia SELMAN

PRICE  
**250 €**

**CLCR**  
since 2018

**CSF cytology on digital slides**

**4** surveys / year  
**4** CSF cyto centrifugation slides

Virtual material: CSF cyto centrifugation slides stained with MGG or Wright-Giemsa and digitised.

**64** registered analytical sites

**2** result entries

**ANALYTES ASSESSED**

- Nucleated cell differential
- Diagnostic hypothesis

**PROGRAM DETAILS**

Clinical cases included

See IT prerequisites (see p. 10)

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Cécile DUMAS ♦ Philippe JOLY ♦ Laetitia SELMAN

PRICE  
**200 €**





# HAEMOSTASIS

13 EQA PROGRAMS

Sub-family: **Haemostasis**

**HMPO**  
since 1975

**Haemostasis**

PROGRAM ACCREDITED

**8** surveys / year  
**16** samples

Lyophilised citrated human plasma, 1 mL

**523** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (26 analytes)
 

- Antithrombin activity
- Antithrombin antigen
- Factor II
- Factor V
- Factor VII
- Factor VII + X
- Factor VIII activity
- Factor VIII antigen
- Factor IX
- Factor X
- Factor XI
- Factor XII
- Factor XIII
- Fibrinogen activity
- Fibrinogen antigen
- INR
- Protein C activity
- Protein C antigen
- Protein S activity
- Protein S antigen
- Free protein S
- Prothrombin time (%)
- Activated partial thromboplastin time (aPTT)
- Kaolin-cephalin clotting time (KCCT)
- Reptilase time
- Thrombin time

**PROGRAM DETAILS**

Check the sample volume — order an additional kit if needed

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Béatrice GUILLEMIN

**1ST KIT**  
**310 €**

**ADDITIONAL KIT**  
**250 €**

**HPPO**  
since 1990

**Heparin**

PROGRAM ACCREDITED

**6** surveys / year  
**20** samples (10 UFH and 10 LMWH)

Lyophilised citrated human plasma, 1 mL

**319** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (2 analytes)
 

- Low-molecular-weight heparin (LMWH)
- Unfractionated heparin (UFH)

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Béatrice GUILLEMIN

**PRICE**  
**280 €**

**ACC**  
since 2013

**Circulating anticoagulants**

PROGRAM ACCREDITED

**4** surveys / year  
**8** samples

Lyophilised citrated human plasma, 1 mL

**146** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (8 analytes)
 

- aPTT
- Mixing test
- Rosner index
- Normalised sensitive/insensitive aPTT ratio
- Dilute Russell's viper venom test (dRVVT screening and confirmation)
- dRVVT screening and confirmation on mix
- Staclot LA®
- Hemosil Silica Clotting Time® (screening and confirmation)

**PROGRAM DETAILS**

Check the sample volume — order an additional kit if needed

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Béatrice GUILLEMIN

**1ST KIT**  
**280 €**

**ADDITIONAL KIT**  
**220 €**



# HAEMOSTASIS

13 EQA PROGRAMS

Sub-family: **Haemostasis**

|                                                                                                                                                                                |                                         |                                           |                  |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------|------------------|-----------------------|
| <b>HMDD</b><br>since 2000                                                                                                                                                      |                                         | <b>D-dimers and Von Willebrand factor</b> |                  | PROGRAM ACCREDITED    |
| 4 surveys / year<br>8 samples                                                                                                                                                  | Lyophilised citrated human plasma, 1 mL | 511 registered analytical sites           | 2 result entries |                       |
| <b>ANALYTES ASSESSED</b> (3 analytes) <ul style="list-style-type: none"> <li>D-dimer</li> <li>Von Willebrand factor activity</li> <li>Von Willebrand factor antigen</li> </ul> |                                         |                                           |                  |                       |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                                                                                                          |                                         |                                           |                  | <b>PRICE</b><br>260 € |

|                                                                                                 |                                         |                                 |                  |                       |
|-------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------|------------------|-----------------------|
| <b>APIX</b><br>since 2017                                                                       |                                         | <b>Apixaban</b>                 |                  | PROGRAM ACCREDITED    |
| 4 surveys / year<br>6 samples                                                                   | Lyophilised citrated human plasma, 1 mL | 138 registered analytical sites | 2 result entries |                       |
| <b>ANALYTES ASSESSED</b> (1 analyte) <ul style="list-style-type: none"> <li>Apixaban</li> </ul> |                                         |                                 |                  |                       |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                           |                                         |                                 |                  | <b>PRICE</b><br>290 € |

|                                                                                                   |                                         |                                |                  |                       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|------------------|-----------------------|
| <b>DANA</b><br>since 2020                                                                         |                                         | <b>Danaparoid</b>              |                  | PROGRAM ACCREDITED    |
| 4 surveys / year<br>6 samples                                                                     | Lyophilised citrated human plasma, 1 mL | 57 registered analytical sites | 2 result entries |                       |
| <b>ANALYTES ASSESSED</b> (1 analyte) <ul style="list-style-type: none"> <li>Danaparoid</li> </ul> |                                         |                                |                  |                       |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                             |                                         |                                |                  | <b>PRICE</b><br>250 € |

|                                                                                                   |                                         |                                |                  |                       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|------------------|-----------------------|
| <b>DABI</b><br>since 2017                                                                         |                                         | <b>Dabigatran</b>              |                  | PROGRAM ACCREDITED    |
| 4 surveys / year<br>6 samples                                                                     | Lyophilised citrated human plasma, 1 mL | 63 registered analytical sites | 2 result entries |                       |
| <b>ANALYTES ASSESSED</b> (1 analyte) <ul style="list-style-type: none"> <li>Dabigatran</li> </ul> |                                         |                                |                  |                       |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                             |                                         |                                |                  | <b>PRICE</b><br>290 € |



# HAEMOSTASIS

13 EQA PROGRAMS

Sub-family: **Haemostasis**

|                                                                                                        |                                         |                                |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|
| <b>FONDA</b><br><i>since 2020</i>                                                                      | <b>Fondaparinux</b>                     | PROGRAM ACCREDITED             |
| 4 surveys / year<br>6 samples                                                                          | Lyophilised citrated human plasma, 1 mL | 16 registered analytical sites |
| 2 result entries                                                                                       |                                         |                                |
| <b>ANALYTES ASSESSED</b> (1 analyte)<br><ul style="list-style-type: none"> <li>Fondaparinux</li> </ul> |                                         |                                |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                                  |                                         | PRICE<br>250 €                 |

|                                                                                                       |                                         |                                 |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------|
| <b>RIVA</b><br><i>since 2017</i>                                                                      | <b>Rivaroxaban</b>                      | PROGRAM ACCREDITED              |
| 4 surveys / year<br>6 samples                                                                         | Lyophilised citrated human plasma, 1 mL | 134 registered analytical sites |
| 2 result entries                                                                                      |                                         |                                 |
| <b>ANALYTES ASSESSED</b> (1 analyte)<br><ul style="list-style-type: none"> <li>Rivaroxaban</li> </ul> |                                         |                                 |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                                 |                                         | PRICE<br>290 €                  |

|                                                                                                      |                                         |                                |
|------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|
| <b>ARGA</b><br><i>since 2024</i>                                                                     | <b>Argatroban</b>                       | PROGRAM ACCREDITED             |
| 4 surveys / year<br>6 samples                                                                        | Lyophilised citrated human plasma, 1 mL | 17 registered analytical sites |
| 2 result entries                                                                                     |                                         |                                |
| <b>ANALYTES ASSESSED</b> (1 analyte)<br><ul style="list-style-type: none"> <li>Argatroban</li> </ul> |                                         |                                |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                                |                                         | PRICE<br>290 €                 |

|                                                                                                           |                                         |                                |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|
| <b>MONO</b><br><i>since 2019</i>                                                                          | <b>Fibrin monomers</b>                  | PROGRAM ACCREDITED             |
| 4 surveys / year<br>6 samples                                                                             | Lyophilised citrated human plasma, 1 mL | 80 registered analytical sites |
| 2 result entries                                                                                          |                                         |                                |
| <b>ANALYTES ASSESSED</b> (1 analyte)<br><ul style="list-style-type: none"> <li>Fibrin monomers</li> </ul> |                                         |                                |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                                     |                                         | PRICE<br>340 €                 |



# HAEMOSTASIS

13 EQA PROGRAMS

Sub-family: **Haemostasis**

|                                                                                                                                         |                                                |                                                   |                         |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------|-------------------------|------------------------------|
| <b>PDF</b><br><small>since 2022</small>                                                                                                 |                                                | <b>Fibrin and fibrinogen degradation products</b> |                         | <b>PROGRAM ACCREDITED</b>    |
| <b>4</b> surveys / year<br><b>6</b> samples                                                                                             | Lyophilised citrated human plasma, <b>1 mL</b> | <b>31</b> registered analytical sites             | <b>2</b> result entries |                              |
| <b>ANALYTES ASSESSED</b> (2 analytes) <ul style="list-style-type: none"> <li>Quantitative FDP</li> <li>Semi-quantitative FDP</li> </ul> |                                                |                                                   |                         |                              |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                                                                   |                                                |                                                   |                         | <b>PRICE</b><br><b>360 €</b> |

|                                                                                                                                 |                                                                 |                                        |                         |                              |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------|-------------------------|------------------------------|
| <b>TIH</b><br><small>since 2022</small>                                                                                         |                                                                 | <b>Anti-PF4 antibody testing</b>       |                         |                              |
| <b>4</b> surveys / year<br><b>6</b> samples                                                                                     | Citrated human plasma, liquid form, ready-to-use, <b>0.5 mL</b> | <b>103</b> registered analytical sites | <b>2</b> result entries |                              |
| <b>ANALYTES ASSESSED</b> (1 analyte) <ul style="list-style-type: none"> <li>Anti-PF4 antibodies</li> </ul>                      |                                                                 |                                        |                         |                              |
| <b>PROGRAM DETAILS</b> <div>  This program is intended for immunological techniques only (rapid tests and ELISA)         </div> |                                                                 |                                        |                         |                              |
| <b>EXPERT BIOLOGISTS - PROGRAM COORDINATORS</b><br>Béatrice GUILLEMIN                                                           |                                                                 |                                        |                         | <b>PRICE</b><br><b>270 €</b> |



## SEROLOGY (BACTERIOLOGY AND MYCOLOGY)

Sub-family: General microbiology

6 EQA PROGRAMS

**FONGAC**  
since 2021

### Anti-*Aspergillus* antibodies



4 surveys / year  
4 samples



Human serum, liquid form,  
0.35 mL



34  
registered analytical sites



2  
result entries



#### ANALYTES ASSESSED (2 analytes)

- Anti-*Aspergillus* antibody - quantitative
- Anti-*Aspergillus* antibody - qualitative



#### PROGRAM DETAILS

Check the sample volume — order an additional kit if needed

Limited to Metropolitan France



#### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Florence PERSAT ♦ Estelle BUGNI



PRICE  
250 €

**FONGAG**  
since 2021

### *Aspergillus* antigens in serum



4 surveys / year  
6 samples



Lyophilised human serum, 1  
mL



41  
registered analytical sites



2  
result entries



#### ANALYTES ASSESSED (2 analytes)

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



#### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Florence PERSAT ♦ Estelle BUGNI



PRICE  
250 €

**FONGLBA**  
since 2021

### *Aspergillus* antigens in BAL



4 surveys / year  
4 samples



Human BAL, liquid form, ready-  
to-use, 0.9 mL



35  
registered analytical sites



2  
result entries



#### ANALYTES ASSESSED (2 analytes)

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



#### PROGRAM DETAILS

Limited to Metropolitan France, excluding Corsica



#### EXPERT BIOLOGISTS - PROGRAM COORDINATORS

Florence PERSAT ♦ Estelle BUGNI



PRICE  
250 €



## SEROLOGY (BACTERIOLOGY AND MYCOLOGY)

Sub-family: **General microbiology**

6 EQA PROGRAMS

**CRYPTO**  
since 2014

### *Cryptococcus* antigens in serum



4 surveys / year  
4 samples



Lyophilised human serum, 0.5 mL



49 registered analytical sites



2 result entries



**ANALYTES ASSESSED** (2 analytes)

- Cryptococcal antigen - detection
- Cryptococcal antigen - titration



**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
Florence PERSAT ♦ Estelle BUGNI

PRICE  
**220 €**

**SYPHI**  
since 2015

### Syphilis serology

PROGRAM  
**ACCREDITED**



4 surveys / year  
6 samples



Lyophilised human serum, 1 mL



86 registered analytical sites



2 result entries



**ANALYTES ASSESSED** (3 analytes)

- Non-treponemal test (VDRL, RPR)
- Treponemal test (TPHA, FTA, EIA)
- Interpretation



**PROGRAM DETAILS**

Clinical cases included



**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**

Laurence PARMELAND ♦ Florian SCHERRER ♦ Chantal ROURE-SOBAS ♦ Béatrice GUILLEMIN ♦ Valérie VERNEAU ♦ Thibault GRAULIERE

PRICE  
**215 €**

**LYME**  
since 2017

### Lyme serology

PROGRAM  
**ACCREDITED**



4 surveys / year  
6 samples



Lyophilised human serum, 1 mL



42 registered analytical sites



2 result entries



**ANALYTES ASSESSED** (5 analytes)

- Screening tests IgG and IgM
- Confirmatory tests IgG and IgM
- Interpretation



**PROGRAM DETAILS**

Clinical cases included



**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**

Florian SCHERRER ♦ Chantal ROURE-SOBAS ♦ Béatrice GUILLEMIN ♦ Thibault GRAULIERE

PRICE  
**215 €**



## BACTERIOLOGY

Sub-family: **General microbiology**

2 EQA PROGRAMS

**BAC**  
since 2015

**Bacteriology**

**4** surveys / year  
**8** samples

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

**38** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (4 analytes)
 

- Antimicrobial susceptibility testing (antibiogram)
- Urine cytology
- Bacterial identification
- Resistance mechanism

**PROGRAM DETAILS**

Clinical cases included

Limited to Metropolitan France

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Laurence PARMELAND ♦ Florian SCHERRER ♦ Chantal ROURE-SOBAS ♦ Béatrice GUILLEMIN ♦ Valérie VERNEAU

**PRICE**  
**540 €**

Sub-family: **Specialised bacteriology**

**HELI**  
since 2025

**<sup>13</sup>C-urea breath test - *H. pylori***

**4** surveys / year  
**8** samples

8 pairs of samples of synthetic air spiked with carbon-13 isotope

**27** registered analytical sites

**1** result entry

**ANALYTES ASSESSED** (4 analytes)
 

- Tube T0 delta
- Tube T30 delta
- T30-T0 difference (DOB)
- Test results

**PROGRAM DETAILS**

This program is intended for tube-based techniques only (not suitable for bag-based techniques)

1 registration = 1 analyser = 1 kit

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Bernard POGGI ♦ Estelle BUGNI ♦ Patric DELISLE

**PRICE**  
**430**



## REPRODUCTIVE BIOLOGY

Sub-family: **Diagnostic semen analysis**

1 EQA PROGRAM

**SPE**  
since 2018

**Semen analysis**

**4** surveys / year  
**4** samples

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

**21** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (8 analytes)

- Round cell concentration 1 surveys/year
- Sperm concentration
- Progressive sperm motility (a+b)
- Sperm morphology
- Sperm vitality
- Sperm Analysis Results
- Sperm morphology Results
- Overall Conclusion of the Clinical Case

**PROGRAM DETAILS**

Clinical cases included

Laboratories outside Metropolitan France: please contact us

See IT prerequisites (see p. 10)

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Benoit SCHUBERT ♦ Marie LETY ♦ André FORCE ♦ Laetitia SELMAN

**PRICE**  
**1550 €**



## MULTI-DISCIPLINARY

2 EQA PROGRAMS

**HIL**  
since 2018

**Serum indices**

**PROGRAM ACCREDITED**

**4** surveys / year  
**8** samples

Lyophilised human samples, **1 mL**

**686** registered analytical sites

**2** result entries

**ANALYTES ASSESSED** (3 analytes)

- Haemolysis index
- Icterus index
- Lipaemia index

**PROGRAM DETAILS**

Suitable for all analysers measuring serum indices (chemistry, haemostasis, serology and immunoassay modules, etc.)

Quantitative and semi-quantitative analyses

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Régine CARTIER ♦ Bernard POGGI ♦ Marie LOPEZ ♦ Laetitia SELMAN

**PRICE**  
**240 €**



## 2 EQA PROGRAMS

- 33 -

# HOW STAFF COMPETENCE ASSISTANCE WORKS

## ASSISTANCE WITH STAFF COMPETENCE ASSESSMENT

The principle: **help the laboratory assess its staff's competence** (biologist, technician, intern) for **initial competence assessment, competence maintenance or inter-operator comparability**.

**The medical laboratory remains responsible for authorising its staff**; ProBioQual provides its expertise on an advisory basis and leaves the choice of competence assessment criteria to the laboratory.



### OBJECTIVE

- › ProBioQual provides a **complete dossier**: digital slide, clinical context and biological results.
- › Administrators and super-administrators have access to:
  - A **consensus formula** and a **proposed set of Acceptable Limits** defined by expert biologists, with an **interpretation** on an advisory basis.
  - An **extraction of the results** of tested personnel in Excel spreadsheet format.
- › The medical laboratory remains **responsible for authorising** its staff and retains the choice of its criteria.



### CONTROL MATERIAL

#### DIGITAL SLIDES

Sourced directly from the laboratories of the **expert biologists** of the program.



### PROGRAM CYCLE

- ① **SLIDES MADE AVAILABLE**  
ProBioQual makes digital slides available with clinical context and biological results open year-round.
- ② **STAFF IDENTIFICATION**  
Each staff member identifies themselves by name at login to access the digital slides. One registration allows up to **15 different users** to be assessed.
- ③ **DOWNLOAD OF RESULTS**  
Administrators and super-administrators download a summary spreadsheet: individual results for each staff member tested, expected results and interpretation guidance.

# OUR PROGRAMS ASSISTING STAFF COMPETENCE ASSESSMENT

## 2 PROGRAMS

These programs are not External Quality Assessment (EQA) programs: they **assist with staff competence assessment** (biologist, technician, intern).

**HCHF**  
since 2018

**HABI - Haemogram cytology**

**6** blood smears available all year round

Virtual material: MGG-stained and digitised blood smears.

**15** result entries

**ANALYTES ASSESSED**

- Leukocyte differential
- Cellular element morphology (white blood cells, red blood cells and platelets)
- Diagnostic hypothesis

**PROGRAM DETAILS**

Clinical cases included

See IT prerequisites (see p. 10)

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Charlotte DE BEAUVOIR ♦ Rémy FAVRE ♦ Laetitia SELMAN

**PRICE**  
**210 €**

**HCLCR**  
since 2019

**HABI - CSF cytology**

**6** CSF cytocentrifugation slides available all year round

Virtual material: MGG- or Wright-Giemsa-stained and digitised CSF cytocentrifugation slides.

**15** result entries

**ANALYTES ASSESSED**

- Nucleated cell differential
- Diagnostic hypothesis

**PROGRAM DETAILS**

Clinical cases included

See IT prerequisites (see p. 10)

**EXPERT BIOLOGISTS - PROGRAM COORDINATORS**  
 Cécile DUMAS ♦ Philippe JOLY ♦ Laetitia SELMAN

**PRICE**  
**210 €**

# CONTINUING EDUCATION IN MEDICAL BIOLOGY

## CPD AND CONTINUING MEDICAL EDUCATION

### TRAINING PROVIDER

Registered under N° 82 69 04 169 69 with the Prefect of the Auvergne-Rhône-Alpes region.

### CPD – ANDPC

ProBioQual is recognised for the continuing professional development of medical biologists and medical laboratory technicians, registered with the ANDPC under N° 1747.

### DATADOCK

Listed on Datadock under N° 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 of action: **training activities**.

To meet the requirements of **continuing professional development (CPD)**, **periodic recertification** and **continuing medical education**, ProBioQual has been offering a **continuing education program in medical biology** since its creation, open to medical biologists and laboratory technicians in both **private and public** settings.

## A MULTIDISCIPLINARY SCOPE

These **in-person** training sessions cover all disciplines related to medical biology and the issues that medical biologists and laboratory technicians face daily (bacteriology, biochemistry, haematology, immunology, virology, quality assurance, informatics, instrumentation, legislation...).

## RECURRING TRAINING COURSES

### MANAGING QUALITY CONTROL RESULTS

1 DAY

- › Overview of quality control.
- › Analytical targets for quality control and technical validation. Calculation of Measurement Uncertainty
- › Managing internal quality controls in an ISO 15189-accredited laboratory. How can you comply with regulatory requirements simply and effectively?
- › Use and interpretation of EQA in biochemistry – case studies.

### MEASUREMENT UNCERTAINTY IN MEDICAL BIOLOGY

1 DAY

- › Principles and definitions.
- › Overview of different methods for evaluating measurement uncertainty.
- › Practical aspects and interpretation.

## MANAGERS & CONTACTS

### OUR BIOLOGIST TRAINING MANAGERS

Pierre-Jean BONDON

Philippe GONZALO

Morgane GOSSEZ-COULAUD

Laurent JALLADES

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Chantal ROURE-SOBAS

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Browse our offers on our website [www.probioqual.com](http://www.probioqual.com)

# PROGRAMS UNDER THE FAEQ

EQA PROGRAMS OFFERED BY THE MEMBER MANAGING ASSOCIATIONS



Fédération des Associations  
d'Évaluation Externe de la Qualité

Association loi du 1<sup>er</sup> Juillet 1901 - enregistrée auprès de la Préfecture du Rhône sous le n° W691080967 - JO du 12 mai 2012

The **6 non-profit associations** (loi 1901) that are members of the **FAEEQ – Fédération des Associations d'EEQ** – Asqualab, Association de Biologie Praticienne, Biologie Prospective, CTCB, GBMHM and ProBioQual – offer their clients a list of EQA programs under the FAEQ umbrella. For these programs, **registration is made directly with the managing association** indicated.



Full list and information at [www.faeq.fr](http://www.faeq.fr). For programs not managed by ProBioQual, **contact the Managing Association indicated directly** and register with that organisation.

## ASQUALAB

+33 (0)1 45 40 35 75    [asqualab@wanadoo.fr](mailto:asqualab@wanadoo.fr)    [www.asqualab.com](http://www.asqualab.com)

- › Specialised antibiotics: program ABC: EQA Beta-lactams and Carbapenems
- › Specialised antibiotics: program ABL: EQA Specialised 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)
- › Neonatal screening (CFTR gene variant analysis)
- › Neonatal screening (metabolites and hormone analysis)
- › Neonatal screening (Haemoglobin 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 measurement
- › Proteinuria analysis
- › G6PD/PK
- › Fetal RhD genotyping
- › Hydroxychloroquine, chloroquine and metabolites (blood and serum)
- › Immunosuppressants in whole blood: ciclosporin, tacrolimus, everolimus and sirolimus
- › Anti-RH1 antibody microtitration
- › Mycophenolate (serum)
- › CD36 phenotyping (Platelet and granulocyte immunology)
- › Kleihauer test
- › Sweat tests
- › Erythrocyte antibody titration
- › Uracilaemia: uracil and dihydrouracil
- › Vitamins and biofactors in blood
- › Vitamins and biofactors in serum

## CTCB

+33 (0)5 34 51 49 80    [secretariat@ctcb.com](mailto:secretariat@ctcb.com)    [www.ctcb.com](http://www.ctcb.com)

- › Allergy
- › Aspergillosis: molecular biology
- › Biotherapy: Adalimumab / Infliximab / Vedolizumab / Ustekinumab / Rituximab / Golimumab / Tocilizumab / Etanercept
- › BKV: molecular biology
- › *Clostridium difficile*: GDH, molecular biology
- › CMV in plasma: molecular biology
- › CMV in whole blood: molecular biology
- › Dengue / Zika / Chikungunya: molecular biology
- › HPV screening on cytology smear
- › Vaginal screening for Group B Streptococcus: molecular biology
- › Angiotensin-converting enzyme
- › Bacterial gastroenteritis: molecular biology
- › HCV in whole blood: molecular biology
- › Histoplasmosis: molecular biology
- › Leptospirosis: molecular biology
- › Leptospirosis: serology
- › Neonatal and adult bacterial meningitis: molecular biology
- › Viral meningitis: molecular biology
- › Mucormycosis: molecular biology
- › Parvovirus B19: serology
- › Seminal plasma (interpretative assessment)
- › Faecal occult blood
- › SARS-CoV-2: molecular biology
- › Urinary schistosomiasis: molecular biology
- › *Staphylococcus aureus* (methicillin resistance): molecular biology
- › *Staphylococcus aureus* (toxins): molecular biology

## GBMHM

+33 (0)1 42 49 40 29    [contact-eeq@gbmhm.fr](mailto:contact-eeq@gbmhm.fr)    [www.gbmhm.fr](http://www.gbmhm.fr)

- › 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
- › IDH1 and IDH2 mutation screening (Pilot)
- › BCR::ABL1 transcript screening
- › MYD88 L265P mutation detection and quantification
- › JAK2 V617F mutation detection and quantification
- › FLT3 ITD duplication detection and quantification
- › C-kit mutation detection and quantification (Pilot)
- › CBFB::MYH11 type A and RUNX1::RUNX1T1 transcript detection and quantification

# PROGRAMS UNDER THE FAEEQ (Continued)

## EQA PROGRAMS OFFERED BY THE MEMBER MANAGING ASSOCIATIONS

### BIOLOGIE PROSPECTIVE

+33 (0)3 83 44 51 41

contact@biologie-prospective.org

www.biologie-prospective.org

- › ADAMTS13
- › Anti-adrenal cortex antibodies
- › Anti-ganglioside antibodies
- › Anti-myelin antibodies
- › Anti-neuronal antibodies
- › Anti-skin antibodies
- › Anti-PLA2R antibodies
- › Anti-acetylcholine receptor antibodies and anti-striated muscle antibodies
- › 16S rRNA: molecular biology
- › 18S rRNA: molecular biology
- › Babesiosis: molecular biology
- › General bacteriology: direct examination
- › Urine dipstick
- › Bartonellosis: molecular biology
- ›  $\beta$ -lactamases (excluding carbapenemases): molecular biology
- › Lyme borreliosis: molecular biology
- › Brucellosis: molecular biology
- › Faecal calprotectin and elastase
- › Serum calprotectin
- › *Campylobacter*: antibodies
- › *Candida auris*: molecular biology
- › Candidiasis: molecular biology
- › Candidiasis: serology
- › Carbapenemases: molecular biology
- › CDT
- › Post-vasectomy semen analysis
- › Functional stool analysis: fecalogram
- › *Coxiella burnetii*: molecular biology
- › Cryoglobulin
- › Cytology of biological fluids (excluding CSF)
- › Lymph node cytology
- › Dermatophytes: molecular biology
- › Clinical embryology
- › Direct compatibility test (crossmatch)
- › Erythroblasts
- › Sperm DNA fragmentation
- › *Francisella tularensis*: molecular biology
- › *Francisella tularensis*: serology
- › Immature granulocytes
- › Influenza and RSV: antigen
- › Urinary hCG
- › *Helicobacter pylori*: antibiotic susceptibility testing
- › *Helicobacter pylori*: antibodies
- › *Helicobacter pylori*: antigen (stool)
- › *Helicobacter pylori*: molecular biology
- › Blood culture
- › Haematological disorders: flow cytometry
- › Point-of-care haemostasis: ACT on whole blood
- › Point-of-care haemostasis: INR on whole blood
- › MAR-Test
- › Mycology (yeasts, moulds and dermatophytes): direct examination
- › PEth (Phosphatidylethanol) on whole blood
- › Extended phenotyping
- › *Puumala* virus: molecular biology
- › *Cryptosporidium* detection in stool: microscopy
- › *S. haematobium* detection in urine: microscopy
- › Glycopeptide resistance: molecular biology
- › *Rickettsia sp.*: molecular biology
- › SARS-CoV-2: antigen
- › SARS-CoV-2: serology
- › Post-coital test (Hühner)
- › Tetanus: antibodies
- › Time-lapse
- › *Toxoplasma gondii*: molecular biology
- › Congenital toxoplasmosis: serology
- › Erythrocyte sedimentation or aggregation rate

### PROBIOQUAL

+33 (0)4 72 65 34 90

secretariat@probioqual.com

www.probioqual.com

- › ACTH (CIMH)
- › Blood alcohol (CALC)
- › Circulating anticoagulants (ACC)
- › Anti-*Aspergillus* antibodies (FONGAC)
- › *Aspergillus* antigen in BAL (FONGLBA)
- › *Aspergillus* antigen in serum (FONGAG)
- › Apixaban (APIX)
- › Argatroban (ARGA)
- › CSF biochemistry (LCR)
- › Point-of-care testing (Biochemistry/Haematology BDB, D-dimers BDDI and INR BDH)
- › Calcitonin (CIMN)
- › Plasma catecholamines and derivatives (CATE)
- › Urinary catecholamines and derivatives (CATU)
- › Urinary free cortisol (CLU)
- › Urinary cotinine (COTI)
- › Cross Laps (CTX)
- › CSF cytology (CLCR)
- › Dabigatran (DABI)
- › Danaparoid (DANA)
- › Glomerular Filtration Rate and Chronic Kidney Disease assessment (CLAI)
- › Ethyl glucuronide in urine (ETG)
- › Fondaparinux (FONDA)
- › Glucagon (CIMG)
- › *Helicobacter pylori*: 13C-urea breath test (HELI)
- › Specialised hormone testing (Free testosterone and Gastrin) (CIMT)
- › Serum indices: Haemolysis / Icterus / Lipaemia (HIL)
- › Biochemical markers of fetal trisomy 21 risk (MSMPO)
- › Biological pre-eclampsia markers (PREE)
- › Bone markers (Bone ALP, P1NP and Osteocalcin) (CIMM)
- › Fibrin monomers (MONO)
- › Gonadal peptides (CIMB)
- › Fibrin and fibrinogen degradation products (PDF)
- › Anti-PF4 antibody testing (TIH)
- › Renin and corticosteroids (CIMR)
- › Rivaroxaban (RIVA)
- › Urine toxicology (TOXU)

# GENERAL TERMS AND CONDITIONS

## PROBIOQUAL

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

### 1 PRICING

Our prices are calculated as accurately as possible, based on the operating costs of our association and the costs of control materials. All prices shown are net (VAT not applicable — article 261 of the French General Tax Code).

The price for registration in a program includes the supply of control materials or digital media, statistical processing, the expertise of program coordinating biologists and the annual report.

The price quoted in the brochure corresponds to the number of surveys for each program. Additional free, optional surveys, covered or not by accreditation, may be offered. By participating you accept a service that may not be covered by accreditation.

For registration in an EQA program, you are allocated 2 result entries allowing the control of 2 analytical systems (or 2 techniques) at a single geographical site of a laboratory (unless otherwise specified in this brochure). If you have more than 2 analytical systems to control, an additional registration is required (1 registration per 2 analysers), in order to comply with French legislative requirements.

### 2 PAYMENT CONDITIONS

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

**Private laboratory:** payment is due upon registration. **Public hospital laboratory:** payment is due upon receipt of invoice.

All charges and commissions relating to bank transfers are the responsibility of the ordering laboratory. Any bank charges debited to ProBioQual will be re-invoiced.

In the event of late payment:

- penalties equal to the statutory interest rate in force on the date of the order will apply from the first day of delay, without any prior formal notice of default being required;
- the fixed indemnity for recovery costs is €40.00 (in accordance with French Decree 2012-1115 of 2 October 2012);
- ProBioQual reserves the right to suspend the processing of programs in progress, as well as the right to block subsequent registrations, without further notice or delay.

### 3 TRANSPORT — DELIVERY

**Shipping costs — mainland France (including Corsica).** Free shipping: orders over €1000. Orders below €1000: a flat-rate shipping fee of €60 per order.

**Shipping costs — outside mainland France (subject to possible adjustments).** A flat-rate fee applies based on geographic zone. Please consult your registration form for details. **Taxes, customs duties and dock dues.** For control materials shipped outside the EU, to French overseas departments and territories, French territorial collectivities, and the Principality of Andorra, customs duties, taxes, levies, or other charges relating to the importation of control materials are the responsibility of the recipient upon receipt of the parcel.

**Dispatch.** We notify you by email each time control materials are dispatched. It is your responsibility to verify receipt, particularly for laboratories outside mainland France (possible customs holds).

**Delivery address.** The delivery address is the address where your parcel will be received. It is recorded when your account is created and will be used for all future deliveries. It must be as complete as possible, specifying department, building, floor if necessary (laboratories in mainland France including Corsica: do not use a P.O. box). In the event of force majeure, ProBioQual cannot be held responsible for failure to fulfil its obligations, or for delays, errors or damage relating to the supply and transport of control materials.

**Receipt of parcels.** All parcels must be checked upon receipt. It is the recipient's responsibility to verify the delivery note and the condition of the control materials. In the event of dispute or anomaly, the customer must clearly state any reservations on the delivery note, mentioning damage or missing items. Any dispute regarding the delivery (discrepancies, shortages, references, anomalies, etc.) must be reported by email to [secretariat@probioqual.com](mailto:secretariat@probioqual.com) within 72 hours of receipt. Beyond this deadline, the delivery will be deemed compliant and no claim will be accepted.

### 4 ORDER CANCELLATION

In accordance with our quality procedures and the requirements of the standards, control materials once dispatched will not be returned, exchanged or refunded under any circumstances.

### 5 INTELLECTUAL PROPERTY AND COPYRIGHT

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

### 6 DISPUTES

These general terms and conditions of sale are governed by French law. All disputes relating to the commercial relationship are subject to the non-exclusive jurisdiction of the French courts and the Commercial Court of Lyon.

### 7 DATA PROTECTION

The General Data Protection Regulation (GDPR) came into force on 25 May 2018. ProBioQual has updated its privacy policy accordingly. We invite you to read our legal notices and privacy policy on our secure website. You can contact our DPO by email at [dpo@probioqual.com](mailto:dpo@probioqual.com).

ProBioQual reserves the right to use participants' results anonymously for scientific publications or various studies. In accordance with Article L-6221-9, ProBioQual may, at the request of the ARS (Agence Régionale de Santé, the French regional health authority), transmit laboratory results to that authority. In such cases, laboratories will be notified in writing. This provision applies only to medical laboratories subject to French law.

#### ProBioQual

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# Quality control at the service of medical biology

Lyon centre for the Promotion of Biology and Quality control – non-profit association.

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Online registration available on our website – phone reception Monday to Friday, 8:30 am–5:30 pm.