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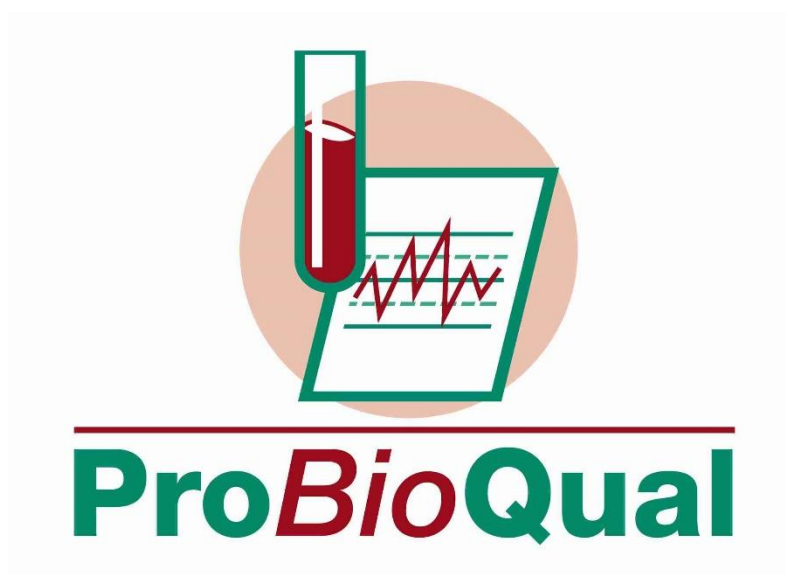
Lyon Centre for the **Promotion of Biology and Quality Control**



Member of  
**EQALM**  
European Organisation for Quality Assurance  
in Laboratories Medicine  
and **FAEEQ**

**A-R01-PBQ-ENR-088-01**  
Lyon, 9 September 2024




## 2025 QUALITY ASSURANCE PROGRAMS FOR MEDICAL BIOLOGY LABORATORIES



### **PLEASE REGISTER ONLINE USING OUR WEBSITE**

If you experience any issues when registering, please contact us or use the form enclosed, following all the instructions.

**Deadline: Tuesday 8 October 2024**  
**Limited stock!**

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

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

We offer more than 360 laboratory tests covering biochemistry, immunology, pharmacology - toxicology, haematology, haemostasis, serology, bacteriology and semen analysis.

- **1 internal quality control (IQC) scheme (no longer available from late April 2025)**
- **67 external quality assessment (EQA) schemes (of which 43 are accredited)**
- **2 accreditation assistance (HABI) schemes**

Dear colleague,

We would like to bring your attention to some improvements we have made for this 2025 brochure:

- Implementation of a new database with improved management of clearly identified analysers.
- Adaptation of numbers of surveys/samples to meet current user requirements. This marks the start of a process to take into account the ISO 15189 accreditation of all French medical laboratories.
- Option for multisite multi-analyser comparison for medical laboratories with testing sites registered in 2025; this is a free on-demand service. It is currently being trialled and consolidated at approx. 50 sites registered in 2024.
- Direct transmission of your EQA results from your LIMS to the ProBioQual database via HPRIM (configuration by ProBioQual on request) and analysis of the use of the standard implemented by the French Digital Health Agency for transmitting results to patients and doctors.

Finally, for 2025, we have made every effort to limit price increases wherever possible, except for some EQA schemes that we were selling at a loss.

Best regards,

**Régine CARTIER and Bernard POGGI**

## Our strengths:

- **ISO 17043 ACCREDITATION** 43 accredited EQA schemes in the brochure, identified with the letter

**A** =

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



- **EXPERIENCE & EXPERTISE** More than 30 medical laboratory biologists, both volunteers and employees, who are experts in their fields, to independently validate, interpret and comment on statistical reports. They are available to answer any questions you may have.
- **INDEPENDENCE** ProBioQual has no commercial strategy and acts independently of any industrial societies or financial groups in the field of laboratory medicine.
- **PEER GROUPS** In 2024, more than 1,372 laboratory sites took part in our schemes.
- **RAPIDITY & REACTIVITY** EQA statistical reports are sent by email within 2 weeks of the entry deadline.
- **ISO 9001 CERTIFICATION**
- **Your EQA results can be sent directly and at no extra cost via HPRIM (see page 3).**

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

## IQC - INTERNAL QUALITY CONTROL

In view of the complexity of the European regulations, **PROBIOQUAL will no longer offer IQC materials from late April 2025.**

## EQA - EXTERNAL QUALITY ASSESSMENT

Our assessment schemes are a complete package including:

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

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

### **DIRECT REMOTE TRANSMISSION OF RESULTS USING HPRIM**

#### **Saving time, avoiding entry errors**

Sending EQA results via HPRIM or HL7 is possible for most analytes with quantitative results (excluding in particular qualitative serology, bacteriology, toxin identification results, etc.). This service is **free of charge**, subject to the laboratory being able to send results in **HPRIM or HL7 form via the Bioserveur or Apicrypt platforms or directly by unencrypted email. Please note that if the laboratory is not registered with Bioserveur or Apicrypt, ProBioQual will not cover the costs of signing up with these organisations.**

As HPRIM and HL7 do not include coding for techniques and devices, the laboratory must check the saved codes on receiving the confirmation of entry, and correct them on our results server if necessary.

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

### **IT PREREQUISITES FOR SCHEMES USING VIRTUAL TOOLS**

- ✓ Core i5 or equivalent, 4 GB RAM Windows 7, 8 or 10, or M,
- ✓ Browser: Internet Explorer 10 or 11, Firefox, Chrome, Edge,
- ✓ Resolution: 1400 x 900 minimum, 1920 x 1080 optimal,
- ✓ **Minimum speed for optimal image scrolling: 8 Mbps (check using <https://testdebit.info>).**

**IT prerequisites apply to the following schemes:**

- Blood cytology on digital slides (CYTO) see page 16,
- CSF cytology on digital slides (CLCR) see page 16,
- Semen analysis (SPE) see page 20,
- Staff accreditation assistance (HCLCR, HCHF) see page 22.

## CHANGES TO OUR IT SYSTEM

After several years in development, the new version of your member's area will be available in January 2025.

This new area goes hand in hand with the overhaul of our internal database, and will offer several improvements and enhancements:

- A new interface fully redesigned to be more modern and intuitive.
- Security improvements including a new access system: a personal account for each user with an invitation system for joining your laboratory site(s).
- Ability to model your entire stock of analysers and add the analytes measured on each analyser together with the techniques used. You can then assign these analysers to a specific entry for an EQA scheme.
- Dynamic entry options that change on the basis of the specific needs of EQA schemes (thresholds for serology, microbiology, toxicology, etc.).

Particular attention has been paid to saving your history (results, grades, documents, etc.).

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## NEW EQA SCHEMES ★

- ★ *H. pylori* breath test (**HELI**) see page 20
- ★ Urinary ethyl glucuronide (**ETG**) see page 15
- ★ Argatroban (**ARGA**) see page 18
- ★ Point-of-care testing - D-dimers option (**BDDI**) see page 21


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## UPDATED SCHEMES

- **CQH**: scheme optimisation with fewer surveys and samples, but maintaining the same annual number of examinations for each analyte. This meets the participating laboratories' (all accredited) request to reduce the survey frequency while maintaining the statistically relevant analyses.
- **TIH**: reduction in the number of samples for this scheme (8 samples) in order to reduce, at their request, reagent costs for laboratories.
- **TOXS**: addition of serum barbiturates analyte.

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## DISCONTINUATION OF INTERNAL CONTROL SCHEMES

- Discontinuation of **MSMPE IQC** - This scheme will no longer be offered from late April 2025.  
 **Note: expiry date July 2025!**



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

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

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

If you would like the list of these EQAs and associated information, please go to [www.faeeq.fr](http://www.faeeq.fr).

EQA name	Managed by
Specialised antibiotics	<p><b>ASQUALAB</b> +33 (0) 1 45 40 35 75 <a href="mailto:asqualab@wanadoo.fr">asqualab@wanadoo.fr</a> <a href="https://www.asqualab.com">https://www.asqualab.com</a></p>
Antifungals	
Antivirals/antiretrovirals	
Renal stones - infrared spectroscopy and powdered stone	
Cytostatics - tyrosine kinase inhibitors	
Cytostatics - other (5-fluorouracil, etoposide, platinum)	
Neonatal screening (metabolites and hormones)	
Neonatal screening (haemoglobin S assay)	
Neonatal screening (CFTR variant testing)	
Foetal RhD genotyping	
Hydroxychloroquine, chloroquine and metabolites (blood and serum)	
Immunosuppressants in blood	
Anti-RH1 antibody microtitration	
Sweat tests	
Kleihauer-Betke test	
Red blood cell (RBC) antibody titration	
Plasma uracil	
Vitamins and biofactors in blood	
Vitamins and biofactors in serum	
ADAMTS13	
Anti-PLA2R antibodies	
Anti-acetylcholine receptor antibodies and anti-striated muscle antibodies	
General bacteriology: direct examination	
Urine test strip	
Biotherapy: tocilizumab	
Faecal calprotectin and elastase	
CDT	
Functional stool test: faecal analysis	
Post-vasectomy analysis	
Biological fluid cytology (excluding CSF)	
Lymph node cytology	
Influenza and RSV: antigen	
Urine hCG	
Blood culture	
Haematological disorders: flow cytometry	
POCT haemostasis: whole blood INR	
POCT haemostasis: whole blood ACT	
MAR test	
Mycology (filamentous fungi - yeasts): direct examination	
SARS-CoV-2: antigen	
SARS-CoV-2: infectious serology	
Postcoital test	
Time-lapse	
Sedimentation or aggregation rate	

EQA name	Managed by
Allergy	<p style="text-align: center;"><b>CTCB</b>                      +33 (0) 5 34 51 49 80  <a href="mailto:secretariat@ctcb.com">secretariat@ctcb.com</a>  <a href="https://www.ctcb.com">https://www.ctcb.com</a></p>
Arbovirus PCR (dengue, zika, chikungunya)	
SARS-CoV-2 RNA (molecular virology)	
Biotherapy: adalimumab/infliximab/vedolizumab/ustekinumab/rituximab	
HPV test for vaginal swab (rollout 2025)	
Angiotensin-converting enzyme (ACE)	
Hepatitis C in whole blood PCR	
OSNA method	
PCR Clostridium difficile	
PCR CSF Virus	
PCR neonatal and adult meningitis	
PCR stool	
PCR Staphylococcus aureus (MSSA and MRSA)	
PCR Staphylococcus aureus toxins	
Seminal plasma	
Blood in stool	
Lymphocyte clonality analysis	<p style="text-align: center;"><b>GBMHM</b>                      +33 (0) 1 42 49 40 28  <a href="mailto:contact-eeq@gbmhm.fr">contact-eeq@gbmhm.fr</a>  <a href="http://www.gbmhm.fr">http://www.gbmhm.fr</a></p>
IGHV mutational status analysis	
NGS Panel lymphoid	
NGS Panel myeloid	
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 analysis	
Calreticulin mutation analysis	
TP53 mutation analysis	
BCR::ABL1 transcript analysis	
L265P MYD88 mutation analysis and quantification	
V617F JAK2 mutation analysis and quantification	
FLT3 ITD mutation analysis and quantification	
CBFB::MYH11 type A and RUNX1::RUNX1T1 transcript analysis and quantification	

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

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



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



**ProBioQual is registered with Datadock under No. 0050370.**



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

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

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

**In 2025, we are organising 3 days of CPD (subject to validation by the French National CPD Agency): two as part of the BIOMED-J conference on 14 and 15 May 2025, and one on 19 June 2025.**

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

**MANAGING QUALITY CONTROL RESULTS: 1 DAY**

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

**UNCERTAINTY MEASUREMENT IN LABORATORY MEDICINE: 1 DAY**

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

**HEADS OF TRAINING / CONTACT**

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

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

The registration form, general terms and conditions and this brochure are the basis of the contract review.

ProBioQual is a non-profit non-governmental association (French Law of 1 July 1901), registered with Rhône Prefecture under No. W691066392.

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

By registering for one of our schemes, you accept all the clauses given in this document and in our general terms and conditions (page 23).

**⚠ We recommend registering as soon as possible. We have anticipated enough stock to guarantee registrations before 8 October 2024. After this date, we can no longer guarantee stock availability.**

**1. Please register online using our website <https://www.probioqual.com>**

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

You can:

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

**2. By post if you cannot register online:**

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

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

- Contact our secretary by email: [secretariat@probioqual.com](mailto:secretariat@probioqual.com)

**⚠ Orders are confirmed by email as soon as they are validated by ProBioQual.**

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

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

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

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

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

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

If you have more than two systems for assessment, you must register again.

**We accept no liability if these instructions are not followed.**

**NOTE: In order to be accepted, registration documents must be clearly completed in full and returned before the deadline of 8 October 2024.**

**ProBioQual does not guarantee stock availability in case of late registration.**



(\*) Subject to modification

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



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

★: New scheme

(\*) Subject to modification

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



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

★: New scheme

## IQC - INTERNAL QUALITY CONTROL

### BIOCHEMICAL MARKERS OF RISK OF FETAL DOWN'S SYNDROM

MSMPE

19 laboratories registered (since 2010) – David Cheillan, Magali Pettazzoni  
Target values established from 80 laboratories  
Serum markers analysed: total hCG, free beta-hCG, AFP, oestriol, PAPP-A



➤ 1 human serum (lyophilised) - 1 mL vial, batch S08

Shelf life after reconstitution:

- ✓ 4 days for free β hCG between +2°C and +8°C
- ✓ 7 days for all other analytes between +2°C and +8°C
- ✓ 14 days between -18°C and -25°C, frozen in aliquots.

Approximate target values:

ANALYSIS	UNITS	S08
AFP	kIU/L	25 - 35
Estriol	nmol/L	2 - 4
Free beta-hCG	U/L	40 - 80
Total hCG	U/L	10,000 - 20,000
PAPP-A	mIU/L	2,000 - 4,000

PRICE/Box of 10 vials	
S08	€380

This scheme will no longer be offered from late April 2025.



Expiry date July 2025

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

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

**794 laboratories registered** (since 1973) – Estelle Bugni, Régine Cartier, Christine Lombard  
 Human serum (lyophilised or liquid), **1 mL to 5 mL**  
**22 surveys** per year – 32 samples  
**62 analytes tested:** each analyte is tested 4 to 16 times

**€560**  
**A**

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

Rheumatoid factor (autoimmunity)

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

**Fructosamine FRUCTO option**

**42 laboratories registered** (since 2021) – Estelle Bugni, Régine Cartier  
 Lyophilised materials, **1 mL**  
**4 surveys** per year – 4 samples

**€190**  
**A**

Fructosamine

**Serum protein electrophoresis and monoclonal immunoglobulin typing EPS**

**418 laboratories registered** (since 2012) – Magali Dechomet, Béatrice Guillemain, Christine Lombard  
 Human serum (lyophilised), **1 mL**  
**8 surveys** per year – 8 samples

 Clinical Cases

**€260**  
**A**

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

**Blood gas with electrolytes ⚠️ 1 registration = 1 analyser = 1 box GDS**

**568 laboratories registered** (since 2013) – Régine Cartier, Béatrice Guillemain, Bernard Poggi, Isabelle Quadrio  
 Ready-to-use ampoules ⚠️ Not compatible with OPTIMEDICAL SYSTEM Opti-CCA devices  
**4 surveys** per year – 6 samples

**1st box €125**  
**Additional box €110**

pH	Bicarbonate	Lactate (blood gas)
pO <sub>2</sub>	Ionised calcium	Potassium (blood gas)
pCO <sub>2</sub>	Chloride (blood gas)	Sodium (blood gas)
Total CO <sub>2</sub>	Glucose (blood gas)	

**A**

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

**CO-Oxymetry ⚠️ 1 registration = 1 analyser = 1 box COOX option**

**446 laboratories registered** (since 2017) – Régine Cartier, Béatrice Guillemain, Bernard Poggi, Isabelle Quadrio  
 Ready-to-use ampoules or lyophilised samples  
**4 surveys** per year – 4 samples

**1st box €105**  
**Additional box €90**

Total haemoglobin	Methaemoglobin	Carboxyhaemoglobin	Oxyhaemoglobin (O2Hb or fractional haemoglobin saturation)	Functional saturation
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**⚠️** This option is not compatible with Epopoc (SIEMENS), i-STAT (ABBOTT), GEM series 3000 (WERFEN) or Opti-CCA (OPTIMEDICAL SYSTEM) devices  
**A** : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at [www.cofrac.fr](http://www.cofrac.fr))

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

**Glycated haemoglobin** **HBA1C**

**461 laboratories registered** (since 2009) – Charlotte Cuera, Philippe Joly, Louis Lacaille, Bernard Poggi, Laetitia Selman

**€280**

Human blood (lyophilised or liquid), **0.5 mL**

**A**

4 surveys per year – 6 samples

HbA1c
-------

**⚠** This scheme is not compatible with Afinion (ABBOTT) devices, registration for the BD scheme (page 21) possible.

**Haemoglobin electrophoresis** **ELHB**

**118 laboratories registered** (since 2011) – Philippe Joly, Louis Lacaille, Laetitia Selman

**€315**

Human blood (lyophilised), **0.5 mL**

 Clinical Cases

**A**

4 surveys per year – 6 samples

Haemoglobin electrophoresis (ELHB)
------------------------------------

**Cardiac markers** **CARD**

**805 laboratories registered** (since 2002) – Delphine Collin-Chavagnac, Charlotte Cuera, Béatrice Guillemain, Bernard Poggi

**€225**

Human serum (lyophilised), **3 mL**

**A**

4 surveys per year – 6 samples

Myoglobin	Troponin I	Troponin T
Homocysteine		

**Natriuretic peptides** **CPN**

**709 laboratories registered** (since 2008) – Delphine Collin-Chavagnac, Charlotte Cuera, Béatrice Guillemain, Bernard Poggi

**€335**

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

**A**

4 surveys per year – 6 samples

BNP	NT-proBNP
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**Procalcitonin** **PCT**

**635 laboratories registered** (since 2010) – Laurence Chardon, Béatrice Guillemain, Bernard Poggi, Sabine Zaepfel

**€205**

Human serum (lyophilised), **1 mL**

**A**

4 surveys per year – 8 samples

Quantitative procalcitonin	Qualitative procalcitonin
----------------------------	---------------------------

**Catecholamines and plasma derivatives** **CATE**

**33 laboratories registered** (since 2017) – Estelle Bugni, Laurence Chardon

**€270**

Plasma and serum (lyophilised), **3 mL to 5 mL**

4 surveys per year – 6 samples

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

**Biochemical risk assessment for Fetal Down's Syndrom** **MSMPO**

**71 laboratories registered** (since 2011) – David Cheillan, Magali Pettazzoni, Laetitia Selman

**€620**

Human serum (lyophilised), **1 mL**

 Demographic data

4 surveys per year – 8 samples

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

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

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

**Immunoassay with marker**

679 laboratories registered (since 1977) – Laurence Chardon, Marie Lopez, Laetitia Selman

Lyophilised human serum (except CIMG samples for glucagon)

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

63 analyses distributed over 12 different serums

**CIMD - Tumour markers and general hormones** 3 mL/vial

⚠ Laboratories testing more than 18 analytes should order an additional box.

**1st box** €520

**Additional box** €250

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

**A**

❖ 4 surveys per year

**CIMB - Gonadal peptides** 1 mL/vial €445

AMH	Inhibin B
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**A**

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

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

**A**

**CIMF - Specialised tumour markers** 1 mL/vial €280

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

**A**

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

Glucagon
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**A**

**CIMH - ACTH** 1 mL/vial €220

ACTH
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**A**

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

Anti-TG (autoimmunity)	Anti-TPO (autoimmunity)	Thyrotropin receptor autoantibodies (TRAb)
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**CIMM - Bone markers (9 samples)** 1 mL/vial €360

BAP	P1NP	Osteocalcin
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**CIMN - Calcitonin** 1 mL/vial €250

Calcitonin
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**A**

**CIMR - Renin and corticosteroids** 1 mL/vial €210

PRA	Renin	
11-Desoxycortisol	Corticosterone	Desoxycorticosterone

**A**

**CIMT - Specialised hormones (free testosterone and gastrin)** 1 mL/vial €285

Free testosterone	Gastrin
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**A**

**CIMV - Vitamin D** 1 mL/vial €245

25-(OH) vitamin D	1,25-(OH) <sub>2</sub> vitamin D
-------------------	----------------------------------

**A**

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

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

**CrossLaps** **CTX**

**61 laboratories registered** (since 2024) – Laurence Chardon, Marie Lopez, Laetitia Selman  
 Animal serum (liquid), **2.5 mL** and human serum (lyophilised), **1 mL**  
 4 surveys per year – 6 samples

**€315**

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

**Biological preeclampsia markers** **PREE**

**39 laboratories registered** (since 2020) – Louis Lacaille, Magali Pettazzoni, Bernard Poggi, Laetitia Selman  
 Human or animal serum (lyophilised), **1 to 2 mL**  
 4 surveys per year – 7 samples

**€405**

PIGF	sFlt-1	sFlt-1/PIGF ratio	PAPP-A
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**Cerebrospinal fluid biochemistry** **LCR**

**425 laboratories registered** (since 2017) – Béatrice Guillemin, Bernard Poggi, Isabelle Quadrio  
 Cerebrospinal fluid **3 mL**  
 4 surveys per year – 6 samples

**€210**

A

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

**Urine biochemistry** **CMU**

**703 laboratories registered** (since 1986) – Estelle Bugni, Bernard Poggi, Sabine Zaepfel  
 Human urine (lyophilised), **5 mL**  
 11 surveys per year – 15 samples  
 16 analytes tested: 8 to 10 analytes per survey

**€290**

A

Uric acid	Glucose	Osmolality	Total protein
Calcium	Magnesium	Phosphate	Sodium
Chloride	Microalbumin	Potassium	Urea
Creatinine	β2 microglobulin*	Urine pH*	Urine density*

**Creatinine clearance and glomerular filtration rate (GFR)** **CLAI**

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

**€140**

A

Serum creatinine	Creatinine clearance, measured	Cystatin C
Urinary creatinine	GFR evaluation	CKD-EPI
COCKCROFT-GAULT	EKFC	

**Catecholamines and urine derivatives** **CATU**

**47 laboratories registered** (since 1983) – Estelle Bugni, Laurence Chardon  
 Human urine (lyophilised), **5 mL**  
 6 surveys per year – 12 samples

**1st box €300**

**Additional box €220**

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

**Urinary free cortisol** **CLU**

**64 laboratories registered** (since 1983) – Estelle Bugni, Laurence Chardon  
 Human urine (lyophilised), **3 mL**  
 6 surveys per year – 12 samples

**€230**

A

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

\* : Analytes not covered by accreditation

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

Blood alcohol	CALC
<b>476 laboratories registered</b> (since 2000) – Estelle Bugni, Antony Citterio-Quentin, Sabine Cohen	<b>€135</b>
Human serum (lyophilised, <b>5 mL</b> vials) and specific solvents	<b>A</b>
4 surveys per year – 6 samples	
<input style="width: 150px; height: 15px;" type="text" value="Ethanol"/>	

Urinary ethyl glucuronide	ETG
★ <b>New</b> – Estelle Bugni, Bernard Poggi	<b>€200</b>
Human urine (lyophilised)	
4 surveys per year – 6 samples	
<input style="width: 150px; height: 15px;" type="text" value="Urinary ethyl glucuronide"/>	

Urinary cotinine	COTI		
⚠ <b>1,5 mL samples - order additional boxes if required</b>	<b>€165</b>		
<b>81 laboratories registered</b> (since 2004) – Estelle Bugni, Bernard Poggi			
Human urine (lyophilised), <b>1.5 mL</b>			
4 surveys per year – 6 samples			
<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Quantitative cotinine</td> <td style="width: 50%; padding: 2px;">Qualitative cotinine</td> </tr> </table>	Quantitative cotinine	Qualitative cotinine	
Quantitative cotinine	Qualitative cotinine		

Medicines	CMED																
<b>476 laboratories registered</b> (since 1993) – Estelle Bugni, Antony Citterio-Quentin, Sabine Cohen	<b>€200</b>																
Human serum (lyophilised), <b>5 mL</b>	<b>A</b>																
4 surveys per year – 6 samples																	
16 drugs analysed																	
<table border="1" style="display: inline-table; border-collapse: collapse; width: 100%;"> <tr> <td style="width: 25%; padding: 2px;">Valproic acid</td> <td style="width: 25%; padding: 2px;">Cyclosporine</td> <td style="width: 25%; padding: 2px;">Methotrexate</td> <td style="width: 25%; padding: 2px;">Teicoplanin</td> </tr> <tr> <td style="padding: 2px;">Amikacin</td> <td style="padding: 2px;">Digoxin</td> <td style="padding: 2px;">Phenobarbital</td> <td style="padding: 2px;">Theophylline</td> </tr> <tr> <td style="padding: 2px;">Caffeine</td> <td style="padding: 2px;">Gentamicin</td> <td style="padding: 2px;">Phenytoin</td> <td style="padding: 2px;">Tobramycin</td> </tr> <tr> <td style="padding: 2px;">Carbamazepine</td> <td style="padding: 2px;">Lithium</td> <td style="padding: 2px;">Tacrolimus</td> <td style="padding: 2px;">Vancomycin</td> </tr> </table>	Valproic acid	Cyclosporine	Methotrexate	Teicoplanin	Amikacin	Digoxin	Phenobarbital	Theophylline	Caffeine	Gentamicin	Phenytoin	Tobramycin	Carbamazepine	Lithium	Tacrolimus	Vancomycin	
Valproic acid	Cyclosporine	Methotrexate	Teicoplanin														
Amikacin	Digoxin	Phenobarbital	Theophylline														
Caffeine	Gentamicin	Phenytoin	Tobramycin														
Carbamazepine	Lithium	Tacrolimus	Vancomycin														

Serum toxicology	Qualitative and quantitative serum toxicology analyses	TOXS					
<b>321 laboratories registered</b> (since 2012) – Estelle Bugni, Antony Citterio-Quentin, Sabine Cohen, Christophe Doche		<b>€160</b>					
Human serum (lyophilised), <b>5 mL</b>	📄 Clinical Cases	<b>A</b>					
4 surveys per year – 6 samples							
5 drug families/molecules analysed systematically:							
<table border="1" style="display: inline-table; border-collapse: collapse; width: 100%;"> <tr> <td style="width: 20%; padding: 2px;">Tricyclic antidepressants</td> <td style="width: 20%; padding: 2px;">Barbiturates*</td> <td style="width: 20%; padding: 2px;">Benzodiazepines</td> <td style="width: 20%; padding: 2px;">Paracetamol</td> <td style="width: 20%; padding: 2px;">Salicylates</td> </tr> </table>	Tricyclic antidepressants	Barbiturates*	Benzodiazepines	Paracetamol	Salicylates		
Tricyclic antidepressants	Barbiturates*	Benzodiazepines	Paracetamol	Salicylates			
And potentially all molecules (medicines and narcotics) detected using separation techniques							

Urine toxicology	Qualitative and/or quantitative urine toxicology analyses	TOXU												
<b>531 laboratories registered</b> (since 2007) – Estelle Bugni, Antony Citterio-Quentin, Sabine Cohen, Christophe Doche		<b>€155</b>												
Human urine (lyophilised), <b>5 mL</b>	📄 Clinical Cases													
4 surveys per year – 4 samples														
12 drug and narcotic families/molecules analysed systematically:														
<table border="1" style="display: inline-table; border-collapse: collapse; width: 100%;"> <tr> <td style="width: 25%; padding: 2px;">Amphetamines</td> <td style="width: 25%; padding: 2px;">Benzodiazepines</td> <td style="width: 25%; padding: 2px;">Cocaine</td> <td style="width: 25%; padding: 2px;">Methadone</td> </tr> <tr> <td style="padding: 2px;">Tricyclic antidepressants</td> <td style="padding: 2px;">Buprenorphine</td> <td style="padding: 2px;">Ecstasy</td> <td style="padding: 2px;">Methamphetamine</td> </tr> <tr> <td style="padding: 2px;">Barbiturates</td> <td style="padding: 2px;">Cannabis</td> <td style="padding: 2px;">EDDP</td> <td style="padding: 2px;">Opiates</td> </tr> </table>	Amphetamines	Benzodiazepines	Cocaine	Methadone	Tricyclic antidepressants	Buprenorphine	Ecstasy	Methamphetamine	Barbiturates	Cannabis	EDDP	Opiates		
Amphetamines	Benzodiazepines	Cocaine	Methadone											
Tricyclic antidepressants	Buprenorphine	Ecstasy	Methamphetamine											
Barbiturates	Cannabis	EDDP	Opiates											
and other <u>potentially</u> toxic molecules detected using separation techniques														

**A**: Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at [www.cofrac.fr](http://www.cofrac.fr))  
 ★ : New scheme  
 \*: Analytes not covered by accreditation



3 - HAEMATOLOGY (Sub-family blood cytology)

**Blood count (stabilised blood) NUM**

560 laboratories registered (since 2009) – Estelle Bugni, Laurent Jallades

€350

Stabilised blood containing human RBCs, mammalian WBCs and platelets, **2 mL**

**A**

4 surveys per year – 8 samples

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

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

**Complete blood count with reticulocyte count, fresh blood NFR option**

475 laboratories registered (since 2011) – Estelle Bugni, Laurent Jallades

€280

Fresh human blood collected and sent on the same day, **1 mL** samples delivered within **24 hours, to be analysed on day of receipt**

**A**

4 surveys per year – 4 samples

 Limited to mainland France, not including Corsica

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

**Reticulocyte count (stabilised blood) RETI option**

265 laboratories registered (since 2015) – Estelle Bugni, Laurent Jallades

€210

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

**A**

2 surveys per year – 4 samples

Reticulocytes (fluorescence, microscope)
--

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

**Sedimentation rate VS**

173 laboratories registered (since 2012) – Estelle Bugni, Laurent Jallades

€250

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

**A**

4 surveys per year – 8 samples

Sedimentation rate 1st hour
-----------------------------



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

**Blood cytology on digital slides CYTO**

57 laboratories registered (since 2015) – Laurent Jallades, Laetitia Selman

€250

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

 Clinical Cases

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



see IT prerequisites (page 3)

**CSF cytology on digital slides CLCR**

80 laboratories registered (since 2018) – Laurent Jallades, Philippe Joly, Laetitia Selman

€200

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

 Clinical Cases

Nucleated cell differential	Diagnostic hypothesis
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see IT prerequisites (page 3)

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

\* : Analytes not covered by accreditation



4 – HAEMOSTASIS (Sub-family Haemostasis)

**Haemostasis** **HMPO**

**⚠** Laboratories testing all analyses: we recommend ordering one or more additional boxes.

**618 laboratories registered** (since 1975) – Chantal Bon, Béatrice Guillemain

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

10 surveys per year – 20 plasmas

1st box **€300**

Additional box **€210**

Prothrombin time ratio (Prothrombin time, % and INR)	aPTT	PTR differential factors	Antithrombin	Protein S	Thrombin time
Fibrinogen	KCCT	aPTT differential factors	Protein C	Free protein S	Reptilase time
		Factor XIII			

A

**Heparin** **HPPO**

**342 laboratories registered** (since 1990) – Chantal Bon, Béatrice Guillemain

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

6 surveys per year – 20 plasmas (10 vials SH + 10 vials LMWH), 4 SH concentrations and 4 LMWH concentrations

**€270**

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

**D-Dimers/Von Willebrand factor** **HMDD**

**620 laboratories registered** (since 2000) – Chantal Bon, Béatrice Guillemain

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

4 surveys per year – 12 plasmas with 4 D-Dimer concentrations and 2 Von Willebrand factor concentrations

**€250**

D-Dimers	Von Willebrand factor	Von Willebrand factor
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A

**Circulating anticoagulants** **ACC**

**⚠** Laboratories testing all analyses: we recommend ordering one or more additional boxes.

**152 laboratories registered** (since 2013) – Chantal Bon, Béatrice Guillemain

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

4 surveys per year – 8 samples

1st box **€270**

Additional box **€200**

Rosner index (aPTT)	Dilute Russell's viper venom time (dRVVT screening and confirmation)
Sensitive/insensitive aPTT normalised ratio	dRVVT mix/control ratio
StacLOT LA	Hemosil silica clotting time (screening and confirmation)

A

**Apixaban** **APIX**

**111 laboratories registered** (since 2017) – Chantal Bon, Béatrice Guillemain

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

4 surveys per year – 6 samples

Apixaban
----------

**€280**

A

**Danaparoid** **DANA**

**58 laboratories registered** (since 2020) – Chantal Bon, Béatrice Guillemain

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

4 surveys per year – 6 samples

Danaparoid
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**€230**

A

**Dabigatran** **DABI**

**62 laboratories registered** (since 2017) – Chantal Bon, Béatrice Guillemain

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

4 surveys per year – 6 samples

Dabigatran
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**€280**

A

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

## HAEMOSTASIS (Sub-family Haemostasis) cont.

<b>Fondaparinux</b>		<b>FONDA</b>
17 laboratories registered (since 2020) – Chantal Bon, Béatrice Guillemain		€230
Human citrated plasma (lyophilised), <u>1 mL</u>		<b>A</b>
4 surveys per year – 6 samples	Fondaparinux	
<b>Rivaroxaban</b>		<b>RIVA</b>
111 laboratories registered (since 2017) – Chantal Bon, Béatrice Guillemain		€280
Human citrated plasma (lyophilised), <u>1 mL</u>		<b>A</b>
4 surveys per year – 6 samples	Rivaroxaban	
<b>Argatroban</b>		<b>ARGA</b>
★ <b>New</b> – Chantal Bon, Béatrice Guillemain		€280
Human citrated plasma (lyophilised), <u>1 mL</u>		
4 surveys per year – 6 samples	Argatroban	
<b>Fibrin monomers</b>		<b>MONO</b>
74 laboratories registered (since 2019) – Chantal Bon, Béatrice Guillemain		€330
Human citrated plasma (lyophilised), <u>1 mL</u>		<b>A</b>
4 surveys per year – 6 samples	Fibrin monomers	
<b>Fibrin and fibrinogen degradation products</b>		<b>PDF</b>
25 laboratories registered (since 2022) – Chantal Bon, Béatrice Guillemain		€350
Human citrated plasma (lyophilised), <u>1 mL</u>		
4 surveys per year – 6 samples	Fibrin and fibrinogen degradation products (PDF)	
<b>Anti-PF4 antibody analysis</b>		<b>TIH</b>
108 laboratories registered (since 2022) – Chantal Bon, Béatrice Guillemain		€270
Human citrated plasma (ready to use), <u>0.5 mL</u>		
4 surveys per year – 8 samples	Anti-PF4 antibodies	
⚠ This scheme is only designed for immunological techniques (rapid and ELISA).		

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

## 5 – SEROLOGY (Sub-family Infectious serology)

### Anti-Aspergillus antibodies FONG-Ac

**⚠** Order an additional box if the volume is insufficient

**39 laboratories registered** (since 2021) – Estelle Bugni, Florence Persat

Human serum (liquid), **0,35 mL**

**4 surveys** per year – **4 samples**

€200

**⚠** Limited to mainland France

Anti-Aspergillus antibodies - quantitative	Anti-Aspergillus antibodies - qualitative
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### Aspergillus antigen FONG-Ag

**⚠** Order an additional box if the volume is insufficient

**46 laboratories registered** (since 2021) – Estelle Bugni, Florence Persat

Human serum (lyophilised), **1 mL**

**4 surveys** per year – **6 samples**

€200

Aspergillus antigen - quantitative	Aspergillus antigen - qualitative
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### Aspergillus antigen detection in BAL FONG-LBA

**39 laboratories registered** (since 2021) – Estelle Bugni, Florence Persat

Human control BAL (ready-to-use liquid), **0,9 mL**

**4 surveys** per year – **4 samples**

€200

**⚠** Limited to mainland France, not including Corsica

Aspergillus antigen - quantitative	Aspergillus antigen - qualitative
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### Cryptococcus antigen CRYPTO

**⚠** Order an additional box if the volume is insufficient

**51 laboratories registered** (since 2014) – Estelle Bugni, Florence Persat

Human serum (lyophilised), **0,5 mL**

**4 surveys** per year – **4 samples**

€200

Cryptococcus antigen - detection	Cryptococcus antigen - titration
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### Syphilis serology SYPHI

**118 laboratories registered** (since 2015) – Béatrice Guillemain, Laurence Parmeland, Chantal Roure-Sobas, Florian Scherrer, Valérie Verneau

Human serum (lyophilised), **1 mL**

**4 surveys** per year – **6 samples**

 Clinical Cases

€180

**A**

Treponemal test (automated technique)	Non-treponemal test (manual technique)	Non-treponemal test (automated technique)	Interpretation
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### Lyme serology LYME

**53 laboratories registered** (since 2017) – Béatrice Guillemain, Chantal Roure-Sobas, Florian Scherrer

Human serum (lyophilised), **1 mL**

**4 surveys** per year – **6 samples**

 Clinical Cases

€205

**A**

Screening tests	Confirmation tests	Interpretation
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**A** : Accredited scheme (as per NF EN ISO/IEC 17043 No. 1-5587. Scope available at [www.cofrac.fr](http://www.cofrac.fr))

6 – BACTERIOLOGY (Sub-family Bacteriology)

<b>Bacteriology</b>				<b>BAC</b>
<b>56 laboratories registered</b> (since 2015) – <i>Béatrice Guillemain, Laurence Parmeland, Chantal Roure-Sobas, Florian Scherrer, Valérie Verneau</i>				<b>€500</b>
<b>2 samples</b> for urine culture, <b>2 samples</b> for urine cytology and <b>4 bacterial strains</b>				
<b>4 surveys</b> per year – <b>8 samples</b>				<b>Clinical Cases</b>
<span style="color: red;">⚠</span> Limited to mainland France				
Urine cytology	Bacterial identification	Antimicrobial susceptibility test	Resistance mechanism	

<b>H. pylori breath test</b>		<b>HELI</b>
★ <b>New</b> – <i>Estelle Bugni, Bernard Poggi</i>		<b>€430</b>
Synthetic air labelled with <sup>13</sup> C isotope		
<b>4 surveys</b> per year – <b>8 samples</b>		<span style="color: red;">⚠</span> 1 registration = 1 analyser = 1 box
Delta Tube T0 Delta Tube T30	Difference T30-T0 (DOB)	

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

<b>Semen analysis</b>				<b>SPE</b>
<b>32 laboratories registered</b> (since 2018) – <i>André Force, Marie Lety, Benoit Schubert, Laetitia Selman</i>				<b>€1,500</b>
Human samples (liquid) ( <b>0.2 mL</b> ), digitalised smears and videos				
<b>4 surveys</b> per year				<b>Clinical Cases</b>
<span style="color: red;">⚠</span> Laboratories outside mainland France: please contact us.				
Sperm concentration	Motility	Vitality	Morphology	
Round cell concentration    1 survey per year				
<b>see IT prerequisites (page 3)</b>				

★ : New scheme

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

### Serum indices

HIL

**702 laboratories registered** (since 2018) – Régine Cartier, Marie Lopez, Bernard Poggi, Laetitia Selman

€220

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

**A**

4 surveys per year – 8 samples

Haemolysis index	Icterus index	Lipaemia index
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Suitable for all analysers carrying out serum index measurements (chemistry, haemostasis, serology devices, etc.).

### Point-of-care testing

**1 registration = 6 entries**

BD

**261 laboratories registered** (since 2018) – Chantal Bon, Marie Lopez, Bernard Poggi, Laetitia Selman

**⚠ Limited to mainland France, not including Corsica**

**3 cumulative options available:**

#### Biochemistry/Haematology option

BDB

Human whole blood, ready-to-use, **1.2 mL, to be analysed on day of receipt**

1st box

€280

4 surveys per year – 4 samples

Additional box

€240

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

#### INR option

BDH

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

1st box

€290

4 surveys per year – 6 samples

Additional box

€220

INR

**Compatible with iSTAT (ABBOTT), Xprecia Stride (SIEMENS) and CoaguCheck (ROCHE); for other analysers, please contact us.**

#### D-Dimers option

BDDI

**★ New**

1st box

€290

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

4 surveys per year – 6 samples

Additional box

€220

D-DIMERS

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

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

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

The staff being evaluated must carry out a WBC differential for the digital smear(s) provided, complete the result with an analysis of the appearance of cellular elements observed and suggest a diagnostic hypothesis.

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

ProBioQual provides its expertise for guidance purposes and proposes a scoreboard for the staff members evaluated in the form of tables that the administrator can use.

<b>HABI - Blood cytology</b>	One registration = 15 entries (15 different users)	<b>HCHF</b>
<b>73 laboratories registered</b> (since 2018) – Laurent Jallades, Laetitia Selman		<b>€200</b>
<b>HAEMOGRAM CYTOLOGY ON DIGITALISED MGG-STAINED BLOOD SMEARS</b>		
6 digital blood smears provided in one delivery for the year		<b>Clinical cases</b>
WBC differential	Appearance of cellular elements	Diagnostic hypothesis
<b>see IT prerequisites</b> (page 3)		

<b>HABI - CSF cytology</b>	One registration = 15 entries (15 different users)	<b>HLCR</b>
<b>20 laboratories registered</b> (since 2019) – Laurent Jallades, Phillipe Joly, Laetitia Selman		<b>€200</b>
<b>CYTOLOGY ON DIGITALISED MGG-STAINED OR WRIGHT GIEMSA-STAINED CYTOCENTRIFUGE SLIDES</b>		
6 digital cytocentrifuge slides provided in one delivery for the year		<b>Clinical cases</b>
Nucleated cell differential	Diagnostic hypothesis	
<b>see IT prerequisites</b> (page 3)		

Summary results table with interpretation guide, available for download by the administrator after entry.

The medical laboratory carries out staff accreditation according to its own criteria.

# ProBioQual - GENERAL TERMS AND CONDITIONS

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

## 1- PRICE

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

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

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

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

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

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

## 2- PAYMENT TERMS

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

**Private laboratory: payment is due on registration.**

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

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

In case of late payment:

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

## 3 - SHIPMENT - DELIVERY

### → DELIVERY COSTS TO MAINLAND FRANCE (INCLUDING CORSICA)

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

Orders less than €800: a flat delivery fee of €50 will be applied to each order.

### → DELIVERY COSTS OUTSIDE MAINLAND FRANCE (Subject to change)

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

**Taxes, customs duties and dock dues:**

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

### → SHIPMENT

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

### → DELIVERY

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

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

### → PACKAGE RECEPTION

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

In case of disputes or anomalies, the client must clearly mark the necessary reservations on the delivery note, stating the damage or missing products. **All claims relating to deliveries (deviations, missing or incorrect products, anomalies, etc.) must be notified by email to [secretariat@probioqual.com](mailto:secretariat@probioqual.com) within 72 hours** of receipt of the delivery. After this period, the delivery will be considered compliant and no further claims may be filed.

## 4 - ORDER CANCELLATION

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

## 5 – INTELLECTUAL PROPERTY AND COPYRIGHT

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

## 6 - DISPUTES

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

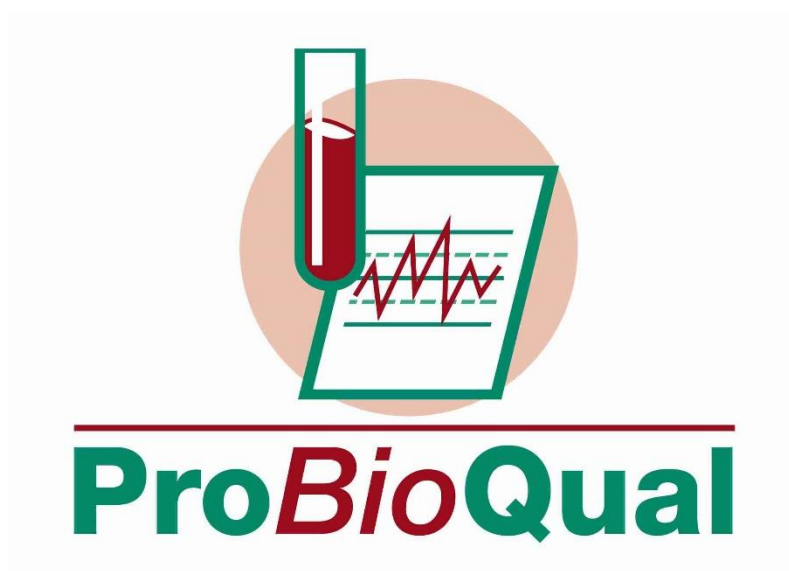
## 7 – DATA PROTECTION

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

If necessary, you can contact our DPO by email at [dpo@probioqual.com](mailto:dpo@probioqual.com).

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

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



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