

## MEDICAL LABORATORY ACCREDITATION PROGRAM

### Scope of Accreditation

**Legal Name of Accredited Laboratory:** Département clinique de médecine de laboratoire du Centre hospitalier de l'Université de Montréal (CHUM) (Site Hôpital Fleury)

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<b>SCC File Number:</b>	151135
<b>Provider:</b>	BNQ-EL
<b>Provider File Number:</b>	56664-1
<b>Accreditation Standard(s):</b>	ISO 15189:2012 Medical laboratories – Requirements for quality and competence ISO 22870:2016 Point of care testing (POCT) – Requirements for quality and competence CAN/CSA-Z902-20 Blood and blood components
<b>Program Specialty Area:</b>	Medical
<b>Initial Accreditation:</b>	2021-03-25
<b>Most Recent Accreditation:</b>	2023-11-16
<b>Accreditation Valid to:</b>	2025-03-25

*Remarque: La présente portée d'accréditation existe également en français, celle-ci est publiée séparément.  
Note: This scope of accreditation is also available in French as a separately issued document.*

**SCC Group Accreditation:**

This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

- Centre hospitalier de l'Université de Montréal, 1051, Sanguinet St., Montréal (Québec) H2X 3E4 (CCN No.: 151126 / BNQ No.: 56655-1)
- Hôpital Maisonneuve-Rosemont, 5415, de l'Assomption Blvd., Montréal (Québec) H1T 2M4 (CCN No.: 151128/BNQ No.: 56657-1)
- Hôpital Santa Cabrini, 5655, Saint-Zotique E. St., Montréal (Québec) H1T 1P7 (CCN No.: 151129 / BNQ No.: 56658-1)
- Hôpital de Verdun, 4000, Lasalle Blvd., Montréal (Québec) H4G 2A3 (CCN No.: 151132 / BNQ No.: 56661-1)
- Hôpital Notre-Dame, 1560, Sherbrooke E. St., Montréal (Québec) H2L 4M1 (CCN No.: 151133 / BNQ No.: 56662-1)
- Hôpital du Sacré-Cœur de Montréal, 5400, Gouin W. Blvd., Montréal (Québec) H4J 1C5 (CCN No.: 151134 / BNQ No.: 56663-1)
- Hôpital Jean-Talon, 1385, Jean-Talon E. St., Montréal (Québec) H2E 1S6 (CCN No.: 151136 / BNQ No.: 56665-1)
- Institut de cardiologie de Montréal, 5000, Bélanger St., Montréal (Québec) H1T 1C8 (CCN No.: 151138 / BNQ No. : 56667-1)

**SCOPE OF ACCREDITATION**

**01.0 BIOCHEMISTRY\***

- 01.1 BIOCHEMISTRY – CLINICAL
- 01.2 BIOCHEMISTRY – HORMONAL
- 01.4 BIOCHEMISTRY – MEDICATION
- 01.5 BIOCHEMISTRY – TOXICOLOGY

(\*) This discipline covers tests subject to ISO 22870; see detailed scope.

**02.0 MOLECULAR BIOLOGY**

- 02.3 MOLECULAR DIAGNOSIS – INFECTIOUS DISEASES

**05.0 HEMATOLOGY**

- 05.2 HEMATOLOGY – CYTOLOGY
- 05.5 HEMATOLOGY – HEMOSTASIS
- 05.7 HEMATOLOGY – IMMUNOLOGY

## SCOPE OF ACCREDITATION

### 06.0 TRANSFUSION MEDICINE

### 07.0 MICROBIOLOGY

- 07.1 MICROBIOLOGY – BACTERIOLOGY
- 07.2 MICROBIOLOGY – IMMUNOSEROLOGY
- 07.5 MICROBIOLOGY – PARASITOLOGY

### 08.0 ANATOMICAL PATHOLOGY

- 08.1 PATHOLOGY – CLINICAL

## DETAILS OF SCOPE OF ACCREDITATION

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
01.0 BIOCHEMISTRY	01.1 Biochemistry – clinical	30010 - Lactic acid (colorimetric)	Enzymatic method	Blood and derived products
		30009 - Folic acid (folates)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	
		30013 - Uric Acid	Spectrophotometry	Blood and derived products, urine, other biological fluids
		30016 - Alanine aminotransferase (ALT)	Enzymatic method	Blood and derived products
		30017 - Albumin	Spectrophotometry	Blood and derived products, other biological fluids, urine
		30029 - Ammoniac	Enzymatic method	Blood and derived products
		30030 - Total amylase	Enzymatic method	Blood and derived products, other biological fluids
		30039 - Prostate-specific antigen (PSA) test	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
		30060 - Aspartate aminotransferase (AST)	Enzymatic method	
		30083 - Bilirubin Direct (conjugated)	Spectrophotometry	
		30084 - Bilirubin total		
		30095 - NT-PRO-BNP (Brain Natriuretic Peptide)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	
		30105 - Calcium total	Electrochemistry	Blood and derived products, urine, other biological fluids
		30106 - Calcium Ionized		Blood and derived products
		30115 - Chloride		Blood and derived products, urine, other biological fluids

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)	
		30116 - Cholesterol – HDL	Enzymatic method	Blood and derived products	
		30119 - Cholesterol total		Blood and derived products, other biological fluids	
		30130 - CK total		Blood and derived products	
		30132 - Creatinine	Spectrophotometry	Blood and derived products, urine, other biological fluids	
		30133 - Crystals (synovial fluid)	Microscopic examination including preparation	Other biological fluids	
		30190 - Iron (binding capacity) (UIBC or TIBC)	Calculation	Blood and derived products	
		30191 - Iron (serum)	Spectrophotometry		
		30193 - Ferritin	Enzyme immunoassays (chemiluminescence, EIA and derivatives)		
		30210 - Gamma glutamyl transferase (GGT)	Enzymatic method		
		30212 - Blood Gas (pO <sub>2</sub> , pCO <sub>2</sub> , pH, HCO <sub>3</sub> , COHb, metHb, oxyHb, SulfHb, CO <sub>2</sub> total)	Co-oximetry		
			Electrochemistry		
		30214 - Glucose	Enzymatic method		Blood and derived products, urine, CSF, other biological fluids
		30301 - Lactate Dehydrogenase (LD)			Blood and derived products, other biological fluids
		30306 - Triglyceride lipase			
		30332 - Total magnesium	Spectrophotometry		Blood and derived products, urine
		30337 - Microalbumin (urine)	Immunoassay - turbidimetry	Urine	
		30362 - Osmolality	Cryoscopic Osmometry	Blood and derived products, urine	
		30383 - pH (biological fluid)	Electrochemistry	Other biological fluids	
		30386 - Alkaline Phosphatase	Enzymatic method	Blood and derived products, other biological fluids	
		30391 - Phosphate	Spectrophotometry	Blood and derived products, urine	
		30398 - Potassium	Electrochemistry	Blood and derived products, urine, other biological fluids	
		30404 - Total protein (other fluids)	Spectrophotometry	Urine, CSF and other biological fluids	
		30405 - Total protein (serum)		Blood and derived products	
		30412 - C-reactive Protein (CRP) (including ultrasensitive)	Immunoassay - turbidimetry	Blood and derived products	
		30478 - Sodium	Electrochemistry	Blood and derived products, urine, other biological fluids	
		30511 - Transferrin	Immunoassay - turbidimetry	Blood and derived products	
		30512 - Triglycerides	Enzymatic method	Blood and derived products, other biological fluids	

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)	
		30513 - Troponin T or I	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
		30531 - Urea	Enzymatic method	Blood and derived products, urine	
		30532 - Urine (microscopic exam)	Microscopic examination including preparation	Urine	
		30533 - Urine (summary examination)	Reflectance		
		30553 - Vitamin B12	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
	01.2 Biochemistry – hormonal	30241 - Chorionic Gonadotropic Hormone (CGH) (serum or urine) (qualitative)		Blood and derived products, urine	
		30242 - Chorionic Gonadotropic Hormone (CGH) (serum or urine) (quantitative)		Blood and derived products	
	30500 - T3 total (total triiodothyronine) or free				
	30502 - T4L (free thyroxine)				
	30516 - TSH (thyrotropic hormone)				
	30600 - Acetaminophen	Immunoassay - turbidimetry			
	30640 - Digoxine	Immunoassay - turbidimetry			
	30692 - Lithium (Li)	Spectrophotometry			
	30760 - Salicylates	Enzymatic method		Blood and derived products	
	01.5 Biochemistry – toxicology		30177 - Ethanol (ethyl alcohol)		
			30851 - Street drugs / strip / drug	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Urine
	POCT		Capillary glucose determination	NA	Blood and derived products, urine, feces, secretions, clinical sample, other biological fluids
			Summary examination (urine) (visual reading)		
			Blood gas analysis with or without co-oximetry (pO <sub>2</sub> , pCO <sub>2</sub> , pH, HCO <sub>3</sub> , COHb, meHb, oxyHb, SulfHb, total CO <sub>2</sub> )		
			Diagnostic test panel (Multiparametric)		
			Determination of activated partial thromboplastin time (ACT) (coagulometer)		
			Tear pH measurement		
			Hemoglobin determination		
Amniotic membrane rupture test					

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		Transcutaneous assessment of bilirubin levels		
		Detection of occult blood in stool		
		Vaginal secretions analysis		
		White blood cell count and neutrophil percentage		
		SARS-CoV-2 screening		
		Group A streptococcus detection		
		RH factor determination (Rhesus on slide)		
		Chorionic gonadotropin hormone detection		
02.0 MOLECULAR BIOLOGY	02.3 Molecular diagnosis – infectious diseases	45031 - Coronavirus (SARS-CoV-2); detection (NAAT) (certified kit) on clinical specimen	Detection of nucleic acids	Secretion, clinical sample
		45131 - Respiratory viruses; multiplex detection of 3 viruses (influenza A, influenza B and RSV) (NAAT) (multiplex) (certified kit) on clinical specimen		
05.0 HEMATOLOGY	05.2 Hematology – cytology	20321 - Fluid cytology with cytospin	Microscopic examination including preparation	CSF, other biological fluids
		20361 - Complete blood count (CBC) or automated Hgb-HCT-Plat.	Calculation	Blood and derived products, other biological fluids
			Impedance measurement	
			Flow cytometry	
		20362 - Differential formula (manual) (including staining)	Microscopic examination including preparation	Blood and derived products
		20363 - Evaluation of red blood cells and platelets (orientation smear) (including staining)	Microscopic examination including preparation	
		20364 - Complete blood count (CBC) or Hb-Ht-Plaq. Micro-method (automated)	Flow cytometry	
			Impedance measurement	
		20490 - Manual sedimentation	Precipitation	
		20450 - Platelets (blood) (manual)	Visual reading	
	20470 - Reticulocytes (automated)	Impedance measurement		
	20470 - Reticulocytes (automated)	Flow cytometry		
	05.5 Hematology – hemostasis	20044 - Cryofibrinogen	Precipitation	
		20044 - Cryofibrinogen	Visual reading	
20061 - D-Dimer (ELISA)		Immunoassay - turbidimetry		

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		20240 - Activated partial thromboplastin time (APTT) or thrombin time (TT) or prothrombin time (PT) (INR) on 50/50 mixture	<b>Photometry</b>	
		20241 - Activated partial thromboplastin time or partial thromboplastin time + activator (APTT)		
		20243 - Prothrombin time (INR) including fibrinogen derivative		
	<b>05.7 Hematology – immunology</b>	20774 - Cryoglobulins (qualitative)	<b>Precipitation</b>	
		20774 - Cryoglobulins (qualitative)	<b>Visual reading</b>	
<b>06.0 TRANSFUSION MEDICINE</b>	<b>06.0 Transfusion medicine</b>	10007 - Irregular antibodies (manual identification)	<b>Immunological method of hemagglutination and derivative</b>	
		10024 - Compatibility (manual or automated)		
		10032 - Multispecific or monospecific direct coombs (tube technique) (manual)		Blood and derived products, cells
		10086 - ABO-Rh blood type (manual)		Blood and derived products
		10136 - Common erythrocyte phenotype (patient or product / by antigen / excluding ABO, D / including controls) (manual)		Blood and derived products, cells
		10150 - Irregular antibodies (manual search)		Blood and derived products
<b>07.0 MICROBIOLOGY</b>	<b>07.1 Microbiology – bacteriology</b>	40102 - Blood culture (2 bottles: aerobic + anaerobic)	<b>Bacterial culture</b>	Blood and derived products, other biological fluids
<b>07.0 MICROBIOLOGY</b>	<b>07.2 Microbiology – immunoserology</b>	40740 - Mononucleosis heterophilic antibody (agglutination)	<b>Qualitative or quantitative agglutination</b>	<b>Blood and derived products</b>
<b>07.0 MICROBIOLOGY</b>	<b>07.5 Microbiology – parasitology</b>	41120 - Malaria (rapid Ag detection) (immunochromatography)	<b>Enzyme immunoassays (chemiluminescence, EIA and derivatives)</b>	Blood and derived products
		41121 - Malaria (smear + thick drop) (preparation and staining)	<b>Microscopic examination including preparation</b>	
		41122 - Malaria (reading and identification, including % parasitaemia)		
<b>08.0 ANATOMICAL PATHOLOGY</b>	<b>08.1 Pathology – clinical</b>	60050 - Special staining	<b>Microscopic examination including preparation</b>	Tissue/cell blocks (paraffin, others), fresh tissue
		60141 - Extemporaneous examination (including staining)	<b>Microscopic examination including preparation</b>	Fresh tissue
		60200 - Routine staining, paraffin-embedded tissue		Tissue/cell blocks (paraffin, others), cells, fresh tissue

**Notes**

**ISO 15189:2012:** Medical laboratories — Requirements for quality and competence

**ISO 22870:2016:** Point-of-care testing (POCT) — Requirements for quality and competence

**CAN/CSA-Z902-20** – Blood and Blood Components

POV-ASB: Accreditation Program Overview

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at [www.scc.ca](http://www.scc.ca).

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