

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 Maisonneuve-Rosemont)

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SCC File Number:	151128
Provider:	BNQ-EL
Provider File Number:	56657-1
Accreditation Standard(s):	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
Program Specialty Area:	Medical
Initial Accreditation:	2021-03-25
Most Recent Accreditation:	2023-11-16
Accreditation Valid to:	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 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 Fleury, 2180, Fleury E. St., Montréal (Québec) H2B 1K3 (CCN no.: 151135 / BNQ no.: 56664-1)
- 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
- 01.3 BIOCHEMISTRY IMMUNOLOGY
- 01.4 BIOCHEMISTRY MEDICATION
- 01.5 BIOCHEMISTRY TOXICOLOGY
- (*) This discipline covers tests subject to ISO 22870; see detailed scope

02.0 MOLECULAR BIOLOGY

- 02.2 MOLECULAR DIAGNOSIS HEMATOLOGY
- 02.3 MOLECULAR DIAGNOSIS INFECTIOUS DISEASES
- 02.4 MOLECULAR DIAGNOSIS HEREDITARY DISEASES
- 02.5 MOLECULAR DIAGNOSIS ONCOLOGY

04.0 GENETICS / CYTOGENETICS

04.2 GENETICS - CYTOGENETICS





SCOPE OF ACCREDITATION

05.0 HEMATOLOGY

05.1	HEMATOLOGY - CYTOCHEMISTRY
05.2	HEMATOLOGY - CYTOLOGY
05.3	HEMATOLOGY - ERYTHROCYTIC
05.4	HEMATOLOGY - GRAFTS
05.5	HEMATOLOGY - HEMOSTASIS
05.6	HEMATOLOGY - IMMUNOCYTOMETRY
05.7	HEMATOLOGY - IMMUNOLOGY

06.0 TRANSFUSION MEDICINE

07.0 MICROBIOLOGY

07.1	MICROBIOLOGY - BACTERIOLOGY
07.2	MICROBIOLOGY - IMMUNOSEROLOGY
07.3	MICROBIOLOGY - MYCOBACTERIOLOGY
07.4	MICROBIOLOGY - MYCOLOGY
07.5	MICROBIOLOGY - PARASITOLOGY

08.0 ANATOMICAL PATHOLOGY

08.1	PATHOLOGY — CLINICAL
08.2	PATHOLOGY – FERTILITY
08.3	PATHOLOGY - CYTOLOGY

DETAILS OF SCOPE OF ACCREDITATION

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
01.0 BIOCHEMISTRY 01.1 Biochemistry – clinical		Physical characterization	Reflectance	Urine
			Refractometry	Urine, other biological fluids
		Osmolality measurement	Cryoscopic Osmometry	Blood and derived products, feces, urine, other biological fluids
	•	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity Chromatography Chromatography Radial immunodiffusion Co-oximetry	Electrochemistry	CSF, blood and derived products, feces, urine and other biological fluids
			Chromatography	Blood and derived products, feces, urine, secretions
			Blood and blood products, feces, urine	
			Co-oximetry	Blood and derived products





Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
			Electrophoresis	CSF, blood and derived products, urine
			Microscopic examination including preparation	Other biological fluids, blood and derived products, feces, urine
			Automated imaging microscopy	Urine
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	CSF, blood and derived products, urine, feces, other biological fluids
			Immunoassay - turbidimetry	Blood and derived products, urine
			Visual reading	Feces
			Immunoassay - fluorescence	Blood and derived products
			Spectrophotometry	Blood and derived products, feces, urine, CSF, other biological fluids
		Research, identification and	Chromatography	Blood and derived products, urine
	01.2 Biochemistry – hormonal	concentration determination of organic and inorganic molecules and enzyme activity	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products, urine, CSF, other biological fluids
		and enzyme detivity	Mass spectroscopy	Blood and derived products, urine
		Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	Qualitative or quantitative agglutination	Blood and derived products
	01.3 Biochemistry – immunology		Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products, other biological fluids
			Immunoassay - fluorescence	Blood and derived products
		Research, identification and/or determination of the concentration of xenobiotics/drugs	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
	01.4 Biochemistry – medication		Immunoassay - turbidimetry	Blood and derived products
			Mass spectroscopy	Blood and derived products
			Spectrophotometry	Blood and derived products
	01.5 Biochemistry –	Research, identification and/or determination of the concentration of toxic substances or analytes	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products, urine, CSF, other biological fluids
	toxicology		Spectrophotometry	CSF, blood and derived products, urine
	POCT		Blood gas analysis with or without co-oximetry (pO2, pCO2, pH, HCO3, COHb, meHb, oxyHb, SulfHb, total CO2)	p
			Summary examination (urine) (visual reading)	
		Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	Transcutaneous assessment of bilirubin levels	
			Determination of activated partial thromboplastin time (ACT)	Blood and derived products, urine, secretions
			White blood cell count and neutrophil percentage	
			Screening for SARS-CoV-2	
			Detection of group A streptococcus	
			Capillary glucose assay	
			Hemoglobin determination	





Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
			Urine density measurement	
			Detection of chorionic gonadotropin hormone (HCG)	
			Amniotic membrane rupture test	
	02.2 Molecular diagnosis	Genotyping and cell typing	Detection of nucleic acids	DNA or RNA clinical sample, blood and derived products, marrow
	– hematology	(erythrocytes, platelets, granulocytes, etc.)	Conventional sequencing	DNA or RNA clinical sample, blood and derived products, marrow
	02.3 Molecular diagnosis – infectious diseases	Research and identification and/or concentration determination (quantification) of viral, bacterial, fungal and parasitic nucleic acids	Detection of nucleic acids	CSF, blood and derived products, fresh tissue, clinical specimen, urine, feces, secretions, other biological fluids
02.0 MOLECULAR BIOLOGY	02.4 Molecular diagnosis – hereditary diseases	Characterization and/or quantification of molecular anomalies	Detection of nucleic acids	DNA or RNA clinical sample, cells, blood and derived products, other biological fluids, marrow
ыосоду		Characterization and/or quantification of molecular anomalies: detection of mutations, inversions, translocations, methylations, deletions, etc.	Detection of nucleic acids	DNA or RNA clinical sample, tissue/cell blocks (kerosene wax, other), fresh tissue, cells
	02.5 Molecular diagnosis – oncology		Molecular in situ hybridization (CISH, FISH)	Tissue/cell blocks (kerosene wax, other), cells and fresh tissue
			Next generation sequencing	Tissue/cell blocks (kerosene wax, others), fresh tissue, cells, clinical sample DNA or RNA
			Conventional sequencing	Tissue/cell blocks (kerosene wax, other), fresh tissue, cells, DNA or RNA from clinical samples,
04.0 053157100	04.2 Genetics – cytogenetics	Karyotype - Numerical and morphological study of chromosomes	Microscopic examination including preparation	Marrow, blood and derived products, fresh tissue
04.0 GENETICS - CYTOGENETICS		Search for chromosomal and/or molecular abnormalities	Molecular in situ hybridization (CISH, FISH)	Blood and derived products, cells, marrow
			Microscopic examination including preparation	Blood and derived products, cells, marrow
	05.1 Hematology – cytochemistry	Determination of hematocytochemistry parameters	Microscopic examination including preparation	Cells, marrow, blood and derived products
		Hemogram, research, identification and/or cells quantification	Microscopic examination including preparation	Cells, marrow, blood and derived products
		Hemogram, research, identification and/or cells quantification	Flow cytometry	Marrow, blood and derived products, other biological fluids, CSF
05.0 HEMATOLOGY	05.2 Hematology –		Microscopic examination including preparation	Cells, marrow, blood and derived products, urine, other biological fluids, CSF
	cytology		Spectrophotometry	Blood and derived products
			Calculation	Blood and derived products
			Impedance measurement	Blood and derived products
		Red blood cell aggregation technique	Precipitation	Blood and derived products





Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
	05.3 Hematology –	Detection and quantification of markers/glycoproteins/enzymes	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
			Microscopic examination including preparation	Blood and derived products, urine, other biological fluids, marrow
	erythrocytic	Search for cellular abnormalities	Visual reading	Blood and derived products
			Macroscopic examination	Other biological fluids, CSF
		Research and determination of	Electrophoresis	Blood and derived products
		hemoglobin concentration	Spectrophotometry	Blood and derived products
			Detection of nucleic acids	DNA or RNA clinical samples, blood and derived products
		HLA genotyping, chimerism, genetic polymorphisms	Next generation sequencing	DNA or RNA clinical samples, blood and derived products
	05.4 Hematology – graft		Conventional sequencing	DNA or RNA clinical samples, blood and derived products
		Identification and/or concentration determination of antibodies and other protein compounds	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
		Hematocytological phenotyping	Molecular in situ hybridization (CISH, FISH)	Bone marrow, blood and derived products
			Coagulometry	Blood and derived products
			Immunoassay - turbidimetry	Blood and derived products
		Determination of hemostasis parameters	Chromogenic method	Blood and derived products
			Modified radial immunodiffusion	Blood and derived products
	05.5 Hematology –		Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
	hemostasis		Visual reading	Blood and derived products
			Precipitation	Blood and derived products
		Fibrinolysis investigation	Visual reading	Blood and derived products
		Platelet tests, search for and determination of heparin-dependent antibody concentration	Aggregometry	Blood and derived products
	05.6 Hematology – immunocytometry	Hematocytological phenotyping	Flow cytometry	Marrow, blood and derived products, other biological fluids, CSF
		Search for cellular abnormalities	Precipitation	Blood and derived products
		Possarch identification and/	Immunoassay - turbidimetry	Blood and derived products
	05.7 Hematology – immunology	Research, identification and/or determination of the	Immunoassay - fluorescence	Blood and derived products
		concentration of proteins, anticoagulants, antibodies	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
	06.0 Transfusion medicine	Comparative test	Immunological method of hemagglutination and derivative	Blood and derived products
06.0 TRANSFUSION MEDICINE		Research and determination of erythrocyte antigens; determination of blood groups	Immunological method of hemagglutination and derivative	Blood and derived products
		Research and/or identification of anti-erythrocytic antibodies	Immunological method of hemagglutination and derivative	Blood and derived products





Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
		Characterization of the sensitivity of bacteria to different substances	Phenotypic determination: sensitivity tests	Isolate
		Preparation for bacterial research and identification	Bacterial culture	Clinical specimen, other biological fluids, feces, urine, CSF, fresh tissue, blood and derived products, secretions
			Microscopic examination including preparation	Clinical specimen, other biological fluids, feces, urine, CSF, fresh tissue, blood and derived products, secretions
	07.1 Microbiology – bacteriology	Research and identification of nucleic acids, toxins, enzymes, antibodies and bacterial antigens	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Feces, urine, fresh tissue, CSF, other biological fluids, blood and derived products
	bacteriology	Research and identification of bacteria	Microscopic examination including preparation	Other biological fluids, feces, urine, CSF, fresh tissue, blood and derived products, secretions, isolate, clinical sample
			Chromogenic method	Other biological fluids, feces, urine, CSF, fresh tissue, blood and derived products, secretions, isolate, clinical sample
			Phenotypic determination by mass spectrometry	Isolate
			Phenotypic determination: biochemical characterization	Isolate
07.0 MICROBIOLOGY	07.2 Microbiology – immunoserology	Research, identification and/or determination of the	Qualitative or quantitative agglutination	Blood and derived products
		concentration of antibodies and/or antigens specific to infectious agents	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
	07.3 Microbiology – mycobacteriology	Diagnosis of latent tuberculosis infection	Enzyme-linked immunoassay (IGRA)	
		Research and identification of mycobacteria	Microscopic examination including preparation	Clinical specimen, blood and derived products, fresh
			Mycobacterial culture	tissue, other biological fluids, urine, CSF, secretions
		Characterizing the sensitivity of infectious agents to different substances	Phenotypic determination: sensitivity tests	Isolate
			Microscopic examination including preparation	Blood and derived products,
			Fungal culture	clinical sample, fresh tissue, isolate, other biological fluids,
		Decearsh and identification of	Chromogenic method	feces, urine, CSF, secretions
	07.4 Microbiology – mycology	Research and identification of fungi and yeast	Immunoassay - fluorescence	Clinical sample, Isolate, other biological fluids, secretions
			Phenotypic determination: biochemical characterization	Isolate
			Phenotypic determination by mass spectrometry	Isolate
		Research, identification and/or determination of the concentration of antibodies and/or antigens specific to infectious agents	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Clinical samples, other biological fluids, CSF, blood and derived products
			Immunochromatography	CSF, blood and derived products
	07.5 Microbiology – parasitology	Research and identification of parasites	Microscopic or macroscopic examination including preparation	Blood and derived products, feces, tissue and other





Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
			Parasite culture	biological fluids, secretions, clinical sample
		Research, identification and/or determination of the concentration of antibodies and/or antigens specific to infectious agents	Immunochromatography	Blood and derived products
	08.1 Pathology – clinical	Autopsies; ultrastructural morphological observation of tissue and cellular components; evaluation of the proportion of specific components/antigens/enzymes	Macroscopic examination including preparation	Fresh tissue
			Microscopic examination including preparation	Fresh tissue, tissue/cell blocks (kerosene wax, other), cells
08.0 ANATOMICAL PATHOLOGY			Immunohistochemistry	Fresh tissue, tissue/cell blocks (kerosene wax, other) kerosene wax, cells
			Macroscopic examination including preparation	Fresh tissue
		Evaluation of the proportion of specific constituents/antigens/enzymes	Immunoassay - fluorescence	Fresh tissue, tissue/cell blocks (kerosene wax, other) kerosene wax, cells
	08.2 Pathology – fertility	Morphological study and cell identification	Microscopic examination including preparation	Semen
	08.3 Pathology – cytology	Morphological observation of cellular constituents	Microscopic examination including preparation	Secretions, clinical sample cells, urine, other biological fluids, tissue blocks (kerosene wax, others), CSF

Notes

Accreditation is granted under a flexible scope. The list of methods subject to accreditation is available.

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.

Elias Rafoul Vice President, Accreditation Services

Publication on: 2023-11-17

