

MEDICAL LABORATORY ACCREDITATION PROGRAM

Scope of Accreditation

Legal Name of Accredited Laboratory: Département de médecine de laboratoire du CHU de Québec – Université Laval (site CENTRE HOSPITALIER DE L'UNIVERSITE LAVAL)

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SCC File Number:	151142
Provider:	BNQ-EL
Provider File Number:	56432-1
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:	2020-10-16
Most Recent Accreditation:	2023-09-30
Accreditation Valid to:	2025-10-16

*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.

- Hôpital de l'Archipel, 430, chemin Principal, Cap-aux-Meules (Québec) G4T 1R9 (No CCN : 151143 / No BNQ : 56433-1),
- Hôpital Jeffery Hale, 1250, chemin Sainte-Foy, Québec (Québec) G1S 2M6 (No CCN : 151144 / No BNQ : 56434-1),
- Hôpital régional de Portneuf, 700, rue Saint-Cyrille, Saint-Raymond (Québec) G3L 1W1 (No CCN : 151145 / No BNQ : 56435-1),
- Hôpital Chauveau, 11999, rue de l'Hôpital, Québec (Québec) G2A 2T7 (No CCN : 151146 / No BNQ : 56436-1),
- Hôpital de Saint-Anne-de-Beaupré, 11000, rue des Montagnards, Beaupré (Québec) G0A 1E0 (No CCN : 151147 / No BNQ : 56437-1),
- Hôpital de La Malbaie, 303, rue Saint-Étienne, La Malbaie (Québec) G5A 1T1 (No CCN : 151148 / No BNQ : 56438-1),
- Hôpital de Baie-Saint-Paul, 88, rue Racine, Baie-Saint-Paul (Québec) G3Z 0K3 (No CCN : 151149 / No BNQ : 56439-1),
- Hôpital du Saint-Sacrement, 1050, chemin Sainte-Foy, Québec (Québec) G1S 4L8 (No CCN : 151151 / No BNQ : 56441-1),
- Hôtel-Dieu de Québec, 11, Côte du Palais, Québec (Québec) G1R 2J6 (No CCN : 151152 / No BNQ : 56442-1),
- Hôpital Saint-François d'Assise, 10, rue de l'Espinay, Québec (Québec) G1L 3L5 (No CCN : 151153 / No BNQ : 56443-1),
- Hôpital de l'Enfant-Jésus, 1401, 18^e Rue, Québec (Québec) G1J 1Z4 (No CCN : 151154 / No BNQ : 56444-1),
- Institut universitaire de cardiologie et de pneumologie de Québec, 2725, chemin Sainte-Foy, Québec (Québec) G1V 4G5 (No CCN : 151155 / No BNQ : 56445-1),

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

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

03.0 MATERNAL SERUM SCREENING

- 03.1 MATERNAL SERUM SCREENING - PRENATAL

04.0 GENETICS / CYTOGENETICS

- 04.1 GENETICS – BIOCHEMISTRY

05.0 HEMATOLOGY*

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

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

06.0 TRANSFUSION MEDICINE

07.0 MICROBIOLOGY

- 07.1 MICROBIOLOGY – BACTERIOLOGY
- 07.2 MICROBIOLOGY – IMMUNOSEROLOGY
- 07.4 MICROBIOLOGY – MYCOLOGY

SCOPE OF ACCREDITATION

07.5 MICROBIOLOGY – PARASITOLOGY

08.0 ANATOMICAL PATHOLOGY

08.1 PATHOLOGY – CLINICAL

08.2 PATHOLOGY – FERTILITY

DETAILS OF SCOPE OF ACCREDITATION

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
01.0 BIOCHEMISTRY	01.1 Biochemistry – clinical	Osmolality measurement	Cryoscopic Osmometry	Blood and derived products, urine
			Chromatography	Blood and derived products
		Flow cytometry	Urine	
		Electrochemistry	Blood and derived products, urine, other biological fluids	
		Microscopic examination including preparation	Urine	
		Immunochromatography	Secretions	
		Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
		Immunoassay - fluorescence	Blood and derived products	
		Nephelometry	Blood and derived products, urine	
		Reflectance	Urine	
	Refractometry	Urine		
	01.2 Biochemistry – hormonal	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	Spectrophotometry	Blood and blood products, urine, CSF, other biological fluids
			Immunochromatography	Urine
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products, urine, other biological fluids
	01.3 Biochemistry – immunology	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity		Blood and derived products
			Nephelometry	Blood and derived products
	01.4 Biochemistry – medication	Research, identification and/or determination of the concentration of xenobiotics / drugs	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
Immunoassay - turbidimetry			Blood and derived products	
Spectrophotometry			Blood and derived products	

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
	01.5 Biochemistry – toxicology	Research, identification and/or determination of the concentration of toxic substances or analytes	Immunochromatography	Urine
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Urine
			Spectrophotometry	Blood and derived products
	POCT	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	AmnioTest Blood gases and electrolytes Blood sugar Hemoglobinemia	Blood and derived products, urine
02.0 MOLECULAR BIOLOGY	02.2 Molecular Diagnostics Hematology	HLA genotyping, chimerism, genetic polymorphisms	Detection of nucleic acids	DNA or RNA from clinical sample
	02.3 Molecular diagnosis – infectious diseases	Identification of specific microorganisms	Conventional sequencing	Blood and derived products
		Research and identification and/or determination of the concentration (quantification) of viral, bacterial and fungal nucleic acids	Detection of nucleic acids	Clinical specimen, isolate, urine, CSF, fresh tissue
	02.4 Molecular diagnosis of hereditary disease	Characterization and/or quantification of molecular anomalies	Detection of nucleic acids	DNA or RNA from clinical sample
			Conventional sequencing	DNA or RNA from clinical sample
POCT	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	SARS-CoV-2	Clinical sample	
03.0 PRENATAL SCREENING	03.1 Prenatal screening	Screening for diseases or abnormalities	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
04.0 GENETICS - CYTOGENETICS	04.1 Biochemistry genetics	Expression analysis and/or functional tests associated with a mutation	Spectrophotometry	Blood and derived products
05.0 HEMATOLOGY	05.2 Hematology – cytology	Hemogram, research, identification and/or cells quantification	Microscopic examination including preparation	Blood and blood products, bone marrow, CSF
			Impedance measurement	Blood and blood products, bone marrow, other biological fluids
		Red blood cell aggregation technique	Precipitation	Blood and derived products
	05.3 Hematology – erythrocytic	Search for cellular abnormalities	Visual reading	Blood and derived products
			Chromatography	Blood and derived products
			Alkaline denaturation	Feces
			Spectrophotometry	Blood and derived products
	05.4 Hematology – transplant	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
HLA genotyping, chimerism, genetic polymorphisms			Cell complements sensitivity test	Blood and derived products

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)	
		Research, identification and/or concentration determination of antibodies and other protein compounds		Blood and derived products	
		Search, identification and/or determination of antibody concentration	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
	05.5 Hematology – hemostasis	Determination of hemostasis parameters		Calculation	Blood and derived products
				Coagulometry	Blood and derived products
				Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
				Chromogenic method	Blood and derived products
				Turbidimetry	Blood and derived products
			Bleeding time	Aggregometry	Blood and derived products
	Platelet tests, search for and determination of heparin-dependent antibody concentration	Blood and derived products			
	05.6 Hematology – immunocytometry	Comparative test		Flow cytometry	Blood and derived products
			Hematocytological phenotyping		Blood and derived products
			Research, identification and/or determination of the concentration of antibodies and other protein compounds		Blood and derived products
	05.7 Hematology – immunology	Research, identification and/or determination of the concentration of proteins, anticoagulants, antibodies		Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
				Immunoassay - fluorescence	Blood and derived products, other biological fluids
				Nephelometry	Blood and derived products
	POCT	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity		Activated clotting time (ACT)	Blood and derived products
	06.0 TRANSFUSION MEDICINE	06.0 Transfusion medicine	Comparative test	Immunological method of hemagglutination and derivative	Blood and derived products
Research and determination of erythrocyte antigens; determination of blood groups			Blood and derived products		
07.0 MICROBIOLOGY	07.1 Microbiology – bacteriology	Characterization of the sensitivity of bacteria to different substances	Phenotypic determination: sensitivity tests	Isolate	
		Preparation for bacterial research and identification	Cell culture	Blood and derived products, clinical specimen, urine, feces,	
			Microscopic examination including preparation	Blood and derived products, clinical specimen, CSF, secretions, urine, other biological fluids	

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
		Research and identification of bacteria	Phenotypic determination by mass spectrometry	Isolate
			Microscopic examination including preparation	Isolate, clinical specimen, blood and derived products, urine
		Research and identification of toxins, enzymes, antibodies and bacterial antigens	Phenotypic determination: biochemical characterization	Isolate
	07.2 Microbiology – immunoserology	Research, identification and/or determination of the concentration of antibodies and/or antigens specific to infectious agents	Qualitative or quantitative agglutination	Blood and derived products
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
	07.4 Microbiology – mycology	Research and identification of fungi and yeast	Phenotypic determination by mass spectrometry	Isolate
	07.5 Microbiology – parasitology	Research and identification of parasites	Calculation	Blood and derived products
			Microscopic examination including preparation	Blood and derived products
		Research, identification and/or determination of the concentration of antibodies and/or antigens specific to infectious agents	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Secretions, urine
	08.0 ANATOMICAL PATHOLOGY	08.1 Pathology – clinical	Autopsies; ultrastructural morphological observation of tissue and cellular components; evaluation of the proportion of specific components/antigens/enzymes	Microscopic examination including preparation
08.2 Pathology – fertility		Morphological study and cell identification	Microscopic examination including preparation	Semen

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.

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