

## MEDICAL LABORATORY ACCREDITATION PROGRAM

### Scope of Accreditation

**Legal Name of Accredited Laboratory:** Département clinique de médecine de laboratoire du CIUSSS de l'Estrie - Centre hospitalier universitaire de Sherbrooke (CHUS) (site Hôpital Fleurimont)

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<b>SCC File Number:</b>	151195
<b>Provider:</b>	BNQ-EL
<b>Provider File Number:</b>	56566-1
<b>Accreditation Standard(s):</b>	ISO 15189:2012 Medical laboratories – Requirements for quality and competence CAN/CSA-Z902-20 Blood and blood components
<b>Program Specialty Area:</b>	Medical
<b>Initial Accreditation:</b>	2021-12-20
<b>Most Recent Accreditation:</b>	2023-12-20
<b>Accreditation Valid to:</b>	2025-12-20

*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.

- Hôtel-Dieu de Sherbrooke, 580, Bowen S. St., Sherbrooke (Québec) J1G 2E8 (CCN N°: 151196/BNQ N°: 56567-1)
- CSSS de Memphrémagog, 50, rue Saint-Patrice Est, Magog (Québec) J1X 3X3 (CCN N°: 151197/BNQ N°: 56568-1)
- Hôpital, CLSC et Centre d'hébergement d'Asbestos, 475, 3<sup>rd</sup> Avenue, Val-des-Sources (Québec) J1T 3N4 (CCN N°: 151198/BNQ N°: 56569-1)
- CSSS de la MRC-de-Coaticook, 138, Jeanne-Mance St., Coaticook, (Québec) J1A 1W3 (CCN N°: 151199/BNQ N°: 56570-1)
- CSSS du Granit, 3569, Laval St., Lac-Mégantic (Québec) G6B 1A5 (CCN N°: 151200/BNQ N°: 56571-1)
- Hôpital de Granby, 205, Leclerc W. Blvd., Granby (Québec) J2G 1T7 (CCN N°: 151201/BNQ N°: 56572-1)
- Hôpital Brome-Missisquoi-Perkins, 950, Principale St., Cowansville (Québec) J2K 1K3 (CCN N°: 151202/BNQ N°: 56573-1)

## 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

### 02.0 MOLECULAR BIOLOGY

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

### 03.0 MATERNAL SERUM SCREENING

- 03.2 MATERNAL SERUM SCREENING - NEONATAL

## SCOPE OF ACCREDITATION

### 04.0 GENETICS / CYTOGENETICS

- 04.1 GENETICS – BIOCHEMISTRY
- 04.2 GENETICS – CYTOGENETICS

### 05.0 HEMATOLOGY

- 05.1 HEMATOLOGY – CYTOCHEMISTRY
- 05.2 HEMATOLOGY – CYTOLOGY
- 05.3 HEMATOLOGY – ERYTHROCYTIC
- 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	Immunochromatography	Secretions
			Reflectance	Urine
			Refractometry	Urine, other biological fluids
		Osmolality measurement	Cryoscopic Osmometry	Blood and derived products, feces, urine, other biological fluids

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
		Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	Atomic absorption	Blood and derived products, urine
			Chromatography	Blood and derived products
			Co-oximetry	Blood and derived products
			Electrochemistry	CSF, blood and derived products, secretions, feces, urine, other biological fluids
			Electrophoresis	CSF, urine, blood and derived products
			Microscopic examination including preparation	Biological fluid, urine
			Gravimetry	Feces
			Modified radial immunodiffusion	Blood and derived products, urine
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Biological fluid, CSF, blood and derived products, feces
			Immunoassay - turbidimetry	CSF, blood and derived products, urine
			Visual reading	Feces
			Precipitation	Blood and derived products
			Mass spectroscopy	Blood and derived products
			Spectrophotometry	Clinical samples, CSF, blood and derived products, urine and other biological fluids
			Infrared spectrometry	Stones
	01.2 Biochemistry – hormonal	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	Immunochromatography	Blood and derived products, secretions, urine and other biological fluids
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products, secretions, urine and other biological fluids
			Mass spectroscopy	Blood and derived products, urine
	01.3 Biochemistry – immunology	Research, identification and concentration determination of organic and inorganic molecules and enzyme activity	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
			Immunoassay - turbidimetry	
	01.4 Biochemistry – medication	Research, identification and/or determination of the concentration of xenobiotics/drugs	Immunoassay - turbidimetry	Blood and derived products
			Mass spectroscopy	Blood and derived products
			Spectrophotometry	Blood and derived products
			Atomic absorption	Blood and derived products

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
	<b>01.5 Biochemistry – toxicology</b>	Research, identification and/or determination of the concentration of toxic substances or analytes	<b>Immunoassay - turbidimetry</b>	Urine
			<b>Spectrophotometry</b>	Blood and derived products, urine
<b>02.0 MOLECULAR BIOLOGY</b>	<b>02.1 Molecular diagnosis – various</b>	Molecular techniques for biomedical analysis	<b>Detection of nucleic acids</b>	DNA or RNA from clinical sample
	<b>02.2 Molecular diagnosis – hematology</b>	Genotyping and cell typing (erythrocytes, platelets, granulocytes, etc.)		DNA or RNA from clinical sample
	<b>02.3 Molecular diagnosis – infectious diseases</b>	Research and identification and/or determination of the concentration (quantification) of viral, bacterial and fungal nucleic acids		DNA or RNA from clinical sample
	<b>02.4 Molecular diagnosis – hereditary diseases</b>	Characterization and/or quantification of molecular anomalies	<b>Next generation sequencing</b>	DNA or RNA from clinical sample
	<b>02.5 Molecular diagnosis – oncology</b>	Characterization and/or quantification of molecular anomalies: detection of mutations, inversions, translocations, methylations, deletions, etc.	<b>Detection of nucleic acids</b>	DNA or RNA from clinical sample
			<b>Molecular in situ hybridization (CISH, FISH)</b>	Tissue/cell blocks (paraffin, others), cells, fresh tissue
			<b>Next generation sequencing</b>	Tissue/cell blocks (paraffin, others), cells, fresh tissue
		Characterization and/or quantification of molecular anomalies	<b>Detection of nucleic acids</b>	DNA or RNA from clinical sample
<b>03.0 MATERNAL SERUM SCREENING</b>	<b>03.2 Maternal serum screening - neonatal</b>	Screening for diseases or abnormalities	<b>Chromatography</b>	Urine
<b>04.0 GENETICS - CYTOGENETICS</b>	<b>04.1 Genetics – biochemistry</b>	Expression analysis and/or mutation-related functional tests	<b>Manual assay (enzymes, metabolites)</b>	Urine
			<b>Mass spectroscopy</b>	Cells, CSF, blood and derived products, fresh tissue, urine, amniotic fluid, other biological fluids
			<b>Spectrophotometry</b>	Blood and by-products, urine, CSF
			<b>Chromatography</b>	Urine
	<b>04.2 Genetics – cytogenetics</b>	Karyotype - Numerical and morphological study of chromosomes	<b>Microscopic examination including preparation</b>	Amniotic fluid, marrow, blood and derived products, fresh tissue
			<b>Cell culture</b>	Cells, fresh tissue
		Genetic diagnosis	<b>Molecular hybridization techniques (microbeads)</b>	Cells, marrow
			<b>Comparative genomic hybridization (CGH)</b>	Blood and derived products, cells
			<b>Molecular in situ hybridization (CISH, FISH)</b>	Cells, blood and derived products, fresh tissue
		Search for chromosomal and/or molecular abnormalities		

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
			Detection of nucleic acids	Cells, blood and derived products, fresh tissue
05.0 HEMATOLOGY	05.1 Hematology – cytochemistry	Determination of hematocytochemistry parameters	Microscopic examination including preparation	Blood and derived products, marrow
		Hemogram, research, identification and/or cells quantification		Blood and derived products, marrow
	05.2 Hematology – cytology	Hemogram, research, identification and/or cells quantification	Calculation	Blood and derived products
			Flow cytometry	Blood and derived products
			Microscopic examination including preparation	CSF, marrow, blood and derived products, urine, secretions, other biological fluids
			Impedance measurement	Blood and derived products
			Spectrophotometry	Blood and derived products
		Red blood cell aggregation technique	Precipitation	Blood and derived products
	05.3 Hematology – erythrocytic	Physical characterization	Viscometry	Blood and derived products
		Detection and quantification of markers/glycoproteins/enzymes	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
			Spectrophotometry	Blood and derived products
		Search for cellular abnormalities	Microscopic examination including preparation	Marrow, blood and derived products
			Visual reading	Blood and derived products
		Research and determination of hemoglobin concentration	Alkaline denaturation	Feces, secretions
			Electrophoresis	Blood and derived products
			Spectrophotometry	Blood and derived products
	05.5 Hematology – hemostasis	Determination of hemostasis parameters	Coagulometry	Blood and derived products
			Immunoassay - turbidimetry	Blood and derived products
			Visual reading	Blood and derived products
			Chromogenic method	Blood and derived products
			Chronometric method	Blood and derived products
			Precipitation	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	Hematocytological phenotyping	Flow cytometry	Blood and derived products

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
	05.7 Hematology – immunology	Search for cellular abnormalities	Precipitation	Blood and derived products
		Research and determination of the antibody concentration to be validated	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
			Immunoassay - fluorescence	Blood and derived products
		Research, identification and/or determination of anticoagulants, antibodies, to be validated	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
			Immunoassay - fluorescence	Blood and derived products
		Research, identification and/or determination of the concentration of proteins, anticoagulants, antibodies	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
			Immunoassay - turbidimetry	Blood and derived products
06.0 TRANSFUSION MEDICINE	06.0 Transfusion medicine	Erythrocyte antigen detection and determination	Immunological method of hemagglutination and derivative	Blood and derived products
		Research and determination of erythrocyte antigens (for ABO, antibodies)	Enzymatic method	Blood and derived products
		Determination of blood types	Immunological method of hemagglutination and derivative	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	Bacterial culture	Secretions, CSF, blood and derived products, isolate, feces, urine, clinical specimen or biological fluid
		Research and identification of bacteria	Phenotypic determination by mass spectrometry	Isolate
			Microscopic examination including preparation	Feces, secretions, isolate, clinical sample
		Research and identification of toxins, enzymes, antibodies and bacterial antigens	Phenotypic determination: biochemical characterization	Isolate
				Feces, urine
	07.2 Microbiology – immunoserology	Research, identification and/or determination of the concentration of antibodies and/or antigens specific to infectious agents	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Feces, urine
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
			Qualitative or quantitative agglutination	Blood and derived products

Discipline	Sub-discipline	Nature of the test	Analytical principle	Matrix (sample)
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	
			Immunoassay - fluorescence	Blood and derived products
	07.3 Microbiology – mycobacteriology	Research and identification of mycobacteria	Mycobacterial culture	Clinical samples, blood and derived products, fresh tissue
			Microscopic examination including preparation	Clinical samples, blood and derived products, fresh tissue
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
	07.4 Microbiology – mycology	Research and identification of fungi and yeast	Fungal culture	Blood and derived products, clinical sample
			Phenotypic determination: biochemical characterization	Clinical sample
			Microscopic examination including preparation	Blood and derived products, clinical sample
			Immunoassay - fluorescence	Clinical sample
		Research, identification and/or determination of the concentration of antibodies and/or antigens specific to infectious agents	Qualitative or quantitative agglutination	Biological fluid
			Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Clinical sample
	07.5 Microbiology – parasitology	Research and identification of parasites	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)	Blood and derived products
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	Fresh tissue
			Histo-enzymology	Fresh tissue
			Immunohistochemistry	Fresh tissue
		Evaluation of the proportion of specific constituents/antigens/enzymes	Immunoassay - fluorescence	Fresh tissue
	08.2 Pathology – fertility	Morphological study and cell identification	Microscopic examination including preparation	Semen
	08.3 Pathology – cytology	Morphological observation of cellular constituents		Cells
		Research		Cells



### **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](http://www.scc.ca).

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