

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 de Sherbrooke (CHUS) (site Hôpital de Granby)

Contact name: Sylvie Martel, Clinico-administrative Director

Address: 205, Leclerc W. Blvd., Granby (Québec) J2G 1T7

Telephone: 819-346-1110

Website: <https://www.santeestrie.qc.ca/accueil>

Email: Sylvie.Martel.ciussse-chus@ssss.gouv.qc.ca

SCC File Number:	151201
Provider:	BNQ-EL
Provider File Number:	56572-1
Accreditation Standard(s):	ISO 15189:2012 Medical laboratories – Requirements for quality and competence CAN/CSA-Z902-20 Blood and blood components
Program Specialty Area:	Medical
Initial Accreditation:	2021-12-20
Most Recent Accreditation:	2023-12-20
Accreditation Valid to:	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.

- Hôpital Fleurimont, 3001, 12th Avenue N., Sherbrooke (Québec) J1H 5N4 (CCN N°: 151195/BNQ N°: 56566-1)
- Hôtel-Dieu de Sherbrooke, 580, Bowen S. St., Sherbrooke (Québec) J1G 2E8 (CCN N°: 151196/BNQ N°: 56567-1)
- CSSS de Memphrémagog, 50, Saint-Patrice E. St., Magog (Québec) J1X 3X3 (CCN N°: 151197/BNQ N°: 56568-1)
- Hôpital, CLSC et Centre d'hébergement d'Asbestos, 475, 3rd 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 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
- 01.4 BIOCHEMISTRY – MEDICATION
- 01.5 BIOCHEMISTRY – TOXICOLOGY

02.0 MOLECULAR BIOLOGY

- 02.3 MOLECULAR DIAGNOSIS – INFECTIOUS DISEASES

05.0 HEMATOLOGY

- 05.1 HEMATOLOGY – CYTOCHEMISTRY
- 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
- 07.4 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	Analytical parameter	Analytical principle	Matrix (sample)
01.0 BIOCHEMISTRY	01.1 Biochemistry – clinical	30013 - Uric Acid	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30016 - Alanine aminotransferase (ALT)	Spectrophotometry	Blood and derived products
		30017 - Albumin	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30029 - Ammoniac	Spectrophotometry	Blood and derived products
		30030 - Total amylase total	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30039 - Prostate-specific antigen (PSA) test	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
		30050 - T3 total (total triiodothyronine) or free	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
		30060 - Aspartate aminotransferase (AST)	Spectrophotometry	Blood and derived products
		30076 - Lactate acid (by specific electrode)	Electrochemistry	Blood and derived products, CSF

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		30083 - Bilirubin Direct (conjugated)	Spectrophotometry	Blood and derived products
		30084 - Bilirubin total	Spectrophotometry	CSF, other biological fluids, blood and derived products
		30095 - NT-PRO-BNP (Brain Natriuretic Peptide)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
		30105 - Calcium total	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30106 - Calcium Ionized	Electrochemistry	Other biological fluids, blood and derived products
		30115 - Chloride	Electrochemistry	Other biological fluids, blood and derived products, CSF, urine
		30116 - Cholesterol – HDL	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30119 - Cholesterol total	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30130 - CK total	Spectrophotometry	Other biological fluids, blood and derived products
		30132 - Creatinine	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30133 - Crystals (synovial fluid)	Microscopic examination including preparation	Other biological fluids
		30153 - Single refractometric density (excl. strips)	Refractometry	Other biological fluids, urine
		30191 - Iron (serum)	Spectrophotometry	Blood and derived products
		30193 - Ferritin	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products
		30210 - Gamma glutamyl transferase (GGT)	Spectrophotometry	Blood and derived products
		30212 - Blood Gas (pO ₂ , pCO ₂ , pH, HCO ₃ , COHb, methHb, oxyHb, SulfHb)	Co-oximetry	Blood and derived products
			Electrochemistry	Blood and derived products
		30214 - Glucose	Electrochemistry	Other biological fluids, blood and derived products, CSF, urine
		30214 - Glucose	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		30301 - Lactate Dehydrogenase (LD)	Spectrophotometry	CSF, other biological fluids, blood and derived products
		30306 - Triglyceride lipase	Spectrophotometry	CSF, other biological fluids, blood and derived products
		30332 - Total magnesium	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30337 - Microalbumin (urine)	Immunoassay - nephelometry	Urine
		30362 - Osmolality	Cryoscopic Osmometry	Other biological fluids, blood and derived products, urine
		30383 - pH (biological fluid)	Electrochemistry	Other biological fluids, blood and derived products, urine
		30386 - Alkaline Phosphatase	Spectrophotometry	Blood and derived products
		30391 - Phosphate	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30398 - Potassium	Electrochemistry	Other biological fluids, blood and derived products, CSF, urine
		30404 - Total protein (other fluids)	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30405 - Total protein (serum)	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30412 - C-reactive Protein (CRP) (including ultrasensitive)	Immunoassay - nephelometry	Blood and derived products
		30478 - Sodium	Electrochemistry	Other biological fluids, blood and derived products, CSF, urine
		30511 - Transferrin	Immunoassay - nephelometry	Blood and derived products
		30512 - Triglycerides	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30513 - Troponin T or I	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Other biological fluids, blood and derived products
		30531 - Urea	Spectrophotometry	CSF, other biological fluids, blood and derived products, urine
		30532 - Urine (microscopic exam)	Microscopic examination including preparation	Urine, other biological fluids

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)	
		30533 - Urine (summary examination)	Reflectance	Urine	
	01.2 Biochemistry – hormonal	30128 - Serum or urine cortisol without extraction	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
		30241 - Chorionic Gonadotropic Hormone (CGH) (serum or urine) (qualitative)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products, urine	
		30242 - Chorionic Gonadotropic Hormone (CGH) (serum or urine) (quantitative)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products, urine	
		30244 - Parathyroid hormone (PTH)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
		30502 - T4L (free thyroxine)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
		30516 - TSH (thyrotropic hormone)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
		01.4 Biochemistry – medication	30600 - Acetaminophen (Tylenol®, Tempra®)	Spectrophotometry	Blood and derived products
	30601 - Valproic acid (Depakène®)		Immunoassay - turbidimetry	Blood and derived products	
	30640 - Digoxin (Lanoxin®)		Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Blood and derived products	
	30692 - Lithium (Li) (Carbolith®, Duralith®, Lithane®)		Spectrophotometry	Blood and derived products	
	30760 - Salicylates		Spectrophotometry	Blood and derived products	
	30780 - Vancomycine (Vancocin®)		Immunoassay - turbidimetry	Blood and derived products	
	01.5 Biochemistry – toxicology	30177 - Ethanol (ethyl alcohol) enzymatic	Spectrophotometry	Blood and derived products	
		30851 - Street drugs/strip/drug	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Urine	
	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	DNA or RNA from clinical sample
			45048 - influenza A and B; detection (NAAT) (multiplex) (certified kit) on clinical specimen	Detection of nucleic acids	DNA or RNA from clinical sample

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		45053 - Coronavirus (SARS-CoV-2 and Influenza A and B); detection (NAAT) (multiplex) (certified kit) on clinical sample	Detection of nucleic acids	DNA or RNA from clinical sample
		45131 - Respiratory multiplex virus 3 (influenza A, influenza B and RSV) (NAAT) (certified kit) on clinical specimen	Detection of nucleic acids	DNA or RNA from clinical sample
05.0 HEMATOLOGY	05.1 Hematology – cytochemistry	20852 - Medullary iron (Prussian blue)	Microscopic examination including preparation	Blood and blood products, marrow
		20983 - Bone marrow (staining)	Microscopic examination including preparation	Blood and blood products, marrow
	05.2 Hematology – cytology	20320 - Liquid cytology (manual)	Microscopic examination including preparation	Blood and derived products, other biological fluids, CSF
		20321 - Fluid cytology with cytopsin	Microscopic examination including preparation	Blood and derived products, other biological fluids, CSF
		20361 - Complete blood count (CBC) or automated Hgb-HCT-Plat.	Calculation	Blood and derived products
			Flow cytometry	Blood and derived products
			Spectrophotometry	Blood and derived products
			Fluorescence	Blood and derived products
		Impedance measurement	Blood and derived products	
		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	Blood and derived products
		20364 - Complete blood count (CBC) or Hb-Ht-Plaq. Micro-method (automated)	Calculation	Blood and derived products
			Flow cytometry	Blood and derived products
			Spectrophotometry	Blood and derived products
			Fluorescence	Blood and derived products
		Impedance measurement	Blood and derived products	
		20470 - Reticulocytes (automated)	Calculation	Blood and derived products
			Flow cytometry	Blood and derived products
	Fluorescence		Blood and derived products	
	Impedance measurement		Blood and derived products	

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		20490 - Manual sedimentation	Precipitation	Blood and derived products
		20381 - Automated sedimentation	Precipitation	Blood and derived products
	05.5 Hematology – hemostasis	20044 - Cryofibrinogen	Precipitation	Blood and derived products
		20062 - D-Dimer (automated)	Immunoassay - turbidimetry	Blood and derived products
		20102 - Fibrinogen (activity)	Aggregometry	Blood and derived products
		20240 - Activated partial thromboplastin time (APTT) or thrombin time (TT) or prothrombin time (PT) (INR) on 50/50 mixture	Coagulometry	Blood and derived products
		20241 - Activated partial thromboplastin time or partial thromboplastin time + activator (APTT)	Coagulometry	Blood and derived products
		20243 - Prothrombin time (INR) including fibrinogen derivative	Coagulometry	Blood and derived products
	05.7 Hematology – immunology	20774 - Cryoglobulins (qualitative)	Precipitation	Blood and derived products
	06.0 TRANSFUSION MEDICINE	06.0 Transfusion medicine	10000 - Cold agglutinins (screening) (qualitative) including autocontrols	Immunological method of hemagglutination and derivative
10001 - Cold agglutinins (titration by thermal amplitude) including autocontrols			Blood and derived products	
10002 - Cold agglutinins (titration) (quantitative) autocontrols included			Blood and derived products	
10007 - Irregular antibodies (manual identification)			Blood and derived products	
10020 - Fetal cells (agglutination) (screening) (qualitative)			Blood and derived products	
10024 - Compatibility (manual or automated)			Blood and derived products	
10027 - Direct Coombs polyspecific or monospecific (manual)			Blood and derived products	
10086 - ABO-Rh blood type (manual)			Blood and derived products	

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		10130 - Patient phenotype (per antigen) (including controls) (manual)		Blood and derived products
		10131 - Product phenotype (by antigen) (excluding ABO, D and including controls)		Blood and derived products
		10150 - Irregular antibodies (manual search)		Blood and derived products
		10730 - ABO and D pellet retyping		Blood and derived products
07.0 MICROBIOLOGY	07.1 Microbiology – bacteriology	40020 - Multi-resistant gram-negative bacteria (bêta-lactamase-ESBL, carbapenemase) (screening)	Bacterial culture	Isolate, clinical sample
		40026 - Semi-quantitative culture from a primary specimen (bronchoscopy)	Bacterial culture	Clinical sample
		40047 - Minimum inhibitory concentration (MIC) microplate/automated card (per bacterium)	Phenotypic determination: sensitivity tests	Isolate
		40048 - Minimum inhibitory concentration (MIC) (strip) (per antibiotic and per bacterium)	Phenotypic determination: sensitivity tests	Isolate
		40049 - Semi-quantitative culture from a primary specimen (catheter)	Bacterial culture	Clinical sample
		40063 - Vancomycin-resistant Enterococcus (VRE) (specific culture)	Bacterial culture	Clinical sample
		40065 - Microbial identification from a primary specimen (expectorations)	Bacterial culture	Clinical sample
		40080 - Strepto A, C, G or beta-hemolytic culture from a primary specimen (throat)	Bacterial culture	Clinical sample
		40101 - Blood culture (1 bottle: aerobic or anaerobic)	Bacterial culture	Blood and derived products
		40102 - Blood culture (2 bottles: aerobic + anaerobic)	Bacterial culture	Blood and derived products
		40125 - Identification of a micro-organism to genus and/or species (API galleries)	Phenotypic determination: biochemical characterization	Isolate
		40126 - Identification of a micro-organism to genus and/or species (identification cards on automated systems)	Phenotypic determination: biochemical characterization	Isolate

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		such as VITEK®, Phoenix® or MicroScan®)		
		40127 - All orientation tests prior to identification of a micro-organism	Phenotypic determination: biochemical characterization	Isolate
		40130 - Gram staining	Microscopic examination including preparation	Isolate, clinical sample
		40140 - Kirby Bauer (per bacterium) (diffusion antibiogram)	Phenotypic determination: sensitivity tests	Isolate
		40160 - Legionella (urinary antigen)	Bacterial culture	Urine
			Immunochromatography	Urine
		40161 - Legionella (culture on clinical specimen)	Bacterial culture	Clinical sample
		40164 - Detection of microorganisms on primary specimen (cerebrospinal fluid (CSF)) (culture)	Bacterial culture	CSF
		40165 - Detection of microorganisms on primary specimen (biological fluid (other than CSF)) (culture)	Bacterial culture	Clinical sample
		40200 - Neisseria gonorrhoeae (culture) (all sites)	Bacterial culture	Clinical sample
		40201 - Staphylococcus aureus (nose) (culture) (except MRSA)	Bacterial culture	Clinical sample
		40202 - Nocardia (culture)	Bacterial culture	Clinical sample
		40220 - Detection of microorganisms on primary specimen (ear or external auditory canal) (culture)	Bacterial culture	Clinical sample
		40242 - Detection of microorganisms on primary specimen (deep pus) (with search for anaerobes, including actinomyces)	Bacterial culture	Clinical sample
		40243 - Detection of microorganisms on primary specimen (superficial pus) (without anaerobic detection)	Bacterial culture	Clinical sample
		40260 - Detection of microorganisms on primary specimen (conjunctival secretions) (culture)	Bacterial culture	Clinical sample

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		40261 - Detection of microorganisms on primary specimen (Tracheobronchial secretions) (culture)	Bacterial culture	Clinical sample
		40262 - Detection of microorganisms on primary specimen (vaginal secretions) (fresh, KOH)	Microscopic examination including preparation	Clinical sample
		40263 - Detection of microorganisms on primary specimen (feces) (culture)	Bacterial culture	Feces
		40264 - Clostridium difficile (toxins A and B) (rapid test) (ELISA membrane) (feces)	Enzyme immunoassays (chemiluminescence, EIA and derivatives)	Feces
		40266 - Methicillin-resistant Staphylococcus aureus (MRSA) (specific culture) (chromogenic agar screening)	Bacterial culture	Clinical sample
		40269 - Group B Streptococcus recto-vaginal culture	Bacterial culture	Clinical sample
		40271 - Sterility test (blood product)	Bacterial culture	Blood and derived products, isolate, clinical sample
		40280 - Detection of microorganisms on primary specimen (vaginal secretions) (Gram direct for vaginosis)	Microscopic examination including preparation	Clinical sample
		40310 - Detection of microorganisms on primary specimen (Urine collected by mid-jet or indwelling probe)	Bacterial culture	Urine
		40311 - Detection of microorganisms on primary specimen (urine collected by methods other than half-jet or indwelling probe (nephrostomy, suprapubic puncture, cystoscopy, ileal conduit, collecting bag, bladder catheterization))	Bacterial culture	Urine
	07.4 Microbiology – mycology	41050 - Yeast (specific culture)	Fungal culture	Clinical sample
		41070 - Mycology (direct examination on clinical specimen) (including fresh, KOH, calcofluor)	Microscopic examination including preparation	Clinical sample
		41071 - Deep mycosis (including yeasts)	Fungal culture	Clinical sample

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
	07.5 Microbiology – parasitology	41072 - Superficial mycosis (dermatophyte) (including yeasts)	Fungal culture	Clinical sample
		41120 - Malaria (rapid Ag detection) (immunochromatography)	Immunochromatography	Blood and derived products
		41121 - Malaria (smear + thick drop) (preparation and staining)	Microscopic examination including preparation	Blood and derived products
		41122 - Malaria (reading and identification, including % parasitaemia)	Microscopic examination including preparation	Blood and derived products
		41153 - Faecal parasites (by concentration, fresh and/or iodine staining including reading)	Microscopic examination including preparation	Feces
08.0 ANATOMICAL PATHOLOGY	08.1 Pathology – clinical	60050 - Special staining	Microscopic examination including preparation	Fresh tissue
		60120 - Description of placenta (cassetting not included)		Fresh tissue
		60122 - Macroscopic description of complex surgical specimens by a medical technologist (cassetting not included)		Fresh tissue
		60124 - Macroscopic description of non-complex surgical specimens by a medical technologist (cassette setting not included)		Fresh tissue
		60128 - Macroscopic description of highly complex surgical specimens by a medical technologist (cassette setting not included)		Fresh tissue
		60141 - Extemporaneous examination (including staining)		Fresh tissue
		60200 - Routine staining, paraffin-embedded tissue		Fresh tissue
		60611 - Macroscopic description without production of slide, block or cassette		Fresh tissue
	08.2 Pathology – fertility	60632 - Complete spermogram (fertility test) or vaso-vasostomy	Microscopic examination including preparation	Semen

Discipline	Sub-discipline	Analytical parameter	Analytical principle	Matrix (sample)
		60633 - Partial spermogram (post-vasectomy)		
	08.3 Pathology – cytology	60470 - Cervical-Vaginal Smears (including liquid medium) (cytologist reading only)	Microscopic examination including preparation	Cells
		60472 - Non-gynecological smear or cytocentrifugation (including liquid medium) (cytologist reading only)	Microscopic examination including preparation	Cells

Notes

ISO 15189:2012: Medical laboratories — 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
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