

Laboratory Medicine – Scope of Accreditation

Facility name	Langley Memorial Hospital
Facility address	22051 Fraser Highway, Langley BC V3A 4H4
Facility code	0106LM
Corporate entity/health authority	Fraser Health Authority

Accreditation	Full Accreditation-ISO 15189
Effective date	2023-11-07
Expiry date	2026-03-17
Laboratory Standard	Version 1.7

Services The College of Physicians and Surgeons of BC Diagnostic Accreditation Program accredits the capability of the named facility to perform the listed services and examinations/procedures.

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Chemistry	Acetaminophen	Turbidimetric	Blood - Plasma
Chemistry	Alanine Aminotransferase (ALT)	Spectrophotometry	Blood - Plasma
Chemistry	Albumin	Colorimetric	Blood - Plasma
Chemistry	Albumin	Colorimetric	Fluid - Peritoneal
Chemistry	Albumin	Colorimetric	Fluid - Pleural
Chemistry	Albumin	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Alkaline phosphatase (ALP)	Spectrophotometry	Blood - Plasma
Chemistry	Alkaline phosphatase (ALP)	Spectrophotometry	Fluid - Peritoneal
Chemistry	Alkaline phosphatase (ALP)	Spectrophotometry	Fluid - Pleural
Chemistry	Alkaline phosphatase (ALP)	Spectrophotometry	Fluid, as approved by Laboratory Physician
Chemistry	Amphetamine	Enzyme immunoassay (EIA)	Urine
Chemistry	Aspartate Aminotransferase (AST)	Spectrophotometry	Blood - Plasma
Chemistry	Benzodiazepines	Enzyme immunoassay (EIA)	Urine
Chemistry	Beta-hydroxybutyrate (BHB)	Turbidimetric	Blood - Plasma
Chemistry	Beta-hydroxybutyrate (BHB)	Turbidimetric	Blood - Serum
Chemistry	Bilirubin, Conjugated	Colorimetric	Blood - Plasma
Chemistry	Bilirubin, Conjugated	Colorimetric	Fluid - Peritoneal

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Chemistry	Bilirubin, Conjugated	Colorimetric	Fluid - Pleural
Chemistry	Bilirubin, Conjugated	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Bilirubin, total	Colorimetric	Blood - Plasma
Chemistry	Bilirubin, total	Colorimetric	Fluid - Peritoneal
Chemistry	Bilirubin, total	Colorimetric	Fluid - Pleural
Chemistry	Bilirubin, total	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Blood Gases – pCO ₂	Potentiometry	Blood - Arterial whole blood
Chemistry	Blood gases – pCO ₂	Potentiometry	Blood - Venous whole blood
Chemistry	Blood Gases – pH	Potentiometry	Blood - Arterial whole blood
Chemistry	Blood gases – pH	Potentiometry	Blood - Venous whole blood
Chemistry	Blood Gases – pH	Potentiometry	Fluid, as approved by Laboratory Physician
Chemistry	Blood Gases – pO ₂	Amperometry	Blood - Arterial whole blood
Chemistry	Blood gases – pO ₂	Amperometry	Blood - Venous whole blood
Chemistry	B-type natriuretic peptide (BNP / NT-proBNP)	Immunoassay	Blood - Plasma
Chemistry	Calcium, ionized	Potentiometry	Blood - Arterial whole blood
Chemistry	Calcium, ionized	Potentiometry	Blood - Venous whole blood
Chemistry	Calcium, total	Ion Selective Electrode (ISE)	Blood - Plasma
Chemistry	Calcium, total	Ion Selective Electrode (ISE)	Fluid - Peritoneal
Chemistry	Calcium, total	Ion Selective Electrode (ISE)	Fluid - Pleural
Chemistry	Calcium, total	Ion Selective Electrode (ISE)	Fluid, as approved by Laboratory Physician
Chemistry	Calcium, total	Ion Selective Electrode (ISE)	Urine
Chemistry	Cannabinoids	Enzyme immunoassay (EIA)	Urine
Chemistry	Chloride	Ion Selective Electrode (ISE)	Blood - Plasma
Chemistry	Chloride	Ion Selective Electrode (ISE)	Fluid - Peritoneal
Chemistry	Chloride	Ion Selective Electrode (ISE)	Fluid - Pleural
Chemistry	Chloride	Ion Selective Electrode (ISE)	Fluid, as approved by Laboratory Physician
Chemistry	Chloride	Ion Selective Electrode (ISE)	Urine
Chemistry	Chloride	Potentiometry	Blood - Arterial whole blood

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Chemistry	Chloride	Potentiometry	Blood - Venous whole blood
Chemistry	Cholesterol, HDL	Colorimetric	Blood - Plasma
Chemistry	Cholesterol, LDL	Calculated	Blood - Plasma
Chemistry	Cholesterol, total	Colorimetric	Blood - Plasma
Chemistry	Cholesterol, total	Colorimetric	Fluid - Peritoneal
Chemistry	Cholesterol, total	Colorimetric	Fluid - Pleural
Chemistry	Cholesterol, total	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	CO ₂ , total	Ion Selective Electrode (ISE)	Blood - Plasma
Chemistry	Cocaine derivatives	Enzyme immunoassay (EIA)	Urine
Chemistry	Co-Oximetry	CO-Oximetry	Blood - Arterial whole blood
Chemistry	Co-Oximetry	CO-Oximetry	Blood - Venous whole blood
Chemistry	C-reactive protein (CRP)	Turbidimetric	Blood - Plasma
Chemistry	Creatine kinase (CK)	Spectrophotometry	Blood - Plasma
Chemistry	Creatinine	Colorimetric	Blood - Plasma
Chemistry	Creatinine	Colorimetric	Fluid - Peritoneal
Chemistry	Creatinine	Colorimetric	Fluid - Pleural
Chemistry	Creatinine	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Creatinine	Colorimetric	Urine
Chemistry	estimated Glomerular Filtration Rate (eGFR)	Calculated	Blood - Plasma
Chemistry	Ethanol	Spectrophotometry	Blood - Plasma
Chemistry	Fentanyl	Enzyme immunoassay (EIA)	Urine
Chemistry	Gamma-glutamyl transferase (GGT)	Colorimetric	Blood - Plasma
Chemistry	Gamma-glutamyl transferase (GGT)	Colorimetric	Fluid - Peritoneal
Chemistry	Gamma-glutamyl transferase (GGT)	Colorimetric	Fluid - Pleural
Chemistry	Gamma-glutamyl transferase (GGT)	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Glucose	Amperometry	Blood - Arterial whole blood
Chemistry	Glucose	Amperometry	Blood - Plasma
Chemistry	Glucose	Amperometry	Blood - Venous whole blood

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Chemistry	Glucose	Spectrophotometry	Fluid - Cerebrospinal
Chemistry	Glucose	Spectrophotometry	Fluid - Peritoneal
Chemistry	Glucose	Spectrophotometry	Fluid - Pleural
Chemistry	Glucose	Spectrophotometry	Fluid, as approved by Laboratory Physician
Chemistry	Human chorionic gonadotropin (hCG) Qualitative	Immunoassay	Urine
Chemistry	Human chorionic gonadotropin (hCG) Qualitative	Immunoassay, lateral flow	Urine
Chemistry	Human chorionic gonadotropin (hCG) Quantitative	Immunoassay	Blood - Plasma
Chemistry	Ketones	Dipstick	Blood - Plasma
Chemistry	Lactate	Amperometry	Blood - Arterial whole blood
Chemistry	Lactate	Amperometry	Blood - Venous whole blood
Chemistry	Lactate	Colorimetric	Blood - Plasma
Chemistry	Lactate	Colorimetric	Fluid - Cerebrospinal
Chemistry	Lactate dehydrogenase (LDH)	Spectrophotometry	Blood - Plasma
Chemistry	Lactate dehydrogenase (LDH)	Spectrophotometry	Fluid - Cerebrospinal
Chemistry	Lactate dehydrogenase (LDH)	Spectrophotometry	Fluid - Peritoneal
Chemistry	Lactate dehydrogenase (LDH)	Spectrophotometry	Fluid - Pleural
Chemistry	Lactate dehydrogenase (LDH)	Spectrophotometry	Fluid, as approved by Laboratory Physician
Chemistry	Lipase	Colorimetric	Blood - Plasma
Chemistry	Lipase	Colorimetric	Fluid - Peritoneal
Chemistry	Lipase	Colorimetric	Fluid - Pleural
Chemistry	Lipase	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Magnesium	Colorimetric	Blood - Plasma
Chemistry	Magnesium	Colorimetric	Fluid - Peritoneal
Chemistry	Magnesium	Colorimetric	Fluid - Pleural
Chemistry	Magnesium	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Methadone	Enzyme immunoassay (EIA)	Urine
Chemistry	Occult Blood - guaiac (gFOBT)	Oxidization (Guaiac)	Stool
Chemistry	Opiates	Enzyme immunoassay (EIA)	Urine

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Chemistry	Osmolality	Freezing point depression	Blood - Plasma
Chemistry	Osmolality	Freezing point depression	Fluid, as approved by Laboratory Physician
Chemistry	Osmolality	Freezing point depression	Urine
Chemistry	Phosphorus	Colorimetric	Blood - Plasma
Chemistry	Phosphorus	Colorimetric	Fluid - Peritoneal
Chemistry	Phosphorus	Colorimetric	Fluid - Pleural
Chemistry	Phosphorus	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Phosphorus	Colorimetric	Urine
Chemistry	Potassium	Ion Selective Electrode (ISE)	Blood - Plasma
Chemistry	Potassium	Ion Selective Electrode (ISE)	Fluid - Peritoneal
Chemistry	Potassium	Ion Selective Electrode (ISE)	Fluid - Pleural
Chemistry	Potassium	Ion Selective Electrode (ISE)	Fluid, as approved by Laboratory Physician
Chemistry	Potassium	Ion Selective Electrode (ISE)	Urine
Chemistry	Potassium	Potentiometry	Blood - Arterial whole blood
Chemistry	Potassium	Potentiometry	Blood - Venous whole blood
Chemistry	Protein, total	Colorimetric	Blood - Plasma
Chemistry	Protein, total	Colorimetric	Fluid - Cerebrospinal
Chemistry	Protein, total	Colorimetric	Fluid - Peritoneal
Chemistry	Protein, total	Colorimetric	Fluid - Pleural
Chemistry	Protein, total	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Protein, total	Colorimetric	Urine
Chemistry	ROM - Fetal fibronectin (FN)	Immunochromatography	Swab
Chemistry	Salicylate	Spectrophotometry	Blood - Plasma
Chemistry	Sodium	Ion Selective Electrode (ISE)	Blood - Plasma
Chemistry	Sodium	Ion Selective Electrode (ISE)	Fluid - Peritoneal
Chemistry	Sodium	Ion Selective Electrode (ISE)	Fluid - Pleural
Chemistry	Sodium	Ion Selective Electrode (ISE)	Fluid, as approved by Laboratory Physician
Chemistry	Sodium	Ion Selective Electrode (ISE)	Urine

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Chemistry	Sodium	Potentiometry	Blood - Arterial whole blood
Chemistry	Sodium	Potentiometry	Blood - Venous whole blood
Chemistry	Specific Gravity	Refractometry	Fluid, as approved by Laboratory Physician
Chemistry	Specific Gravity	Refractometry	Urine
Chemistry	Tetraiodothyronin, Free (FT4)	Immunoassay	Blood - Plasma
Chemistry	Thyroid-stimulating hormone (TSH)	Immunoassay	Blood - Plasma
Chemistry	Triglycerides	Colorimetric	Blood - Plasma
Chemistry	Triglycerides	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Troponin I, High Sensitivity (HS-Trop I)	Immunoassay	Blood - Plasma
Chemistry	Urea	Spectrophotometry	Blood - Plasma
Chemistry	Urea	Spectrophotometry	Fluid - Peritoneal
Chemistry	Urea	Spectrophotometry	Fluid - Pleural
Chemistry	Urea	Spectrophotometry	Fluid, as approved by Laboratory Physician
Chemistry	Urea	Spectrophotometry	Urine
Chemistry	Uric acid	Colorimetric	Blood - Plasma
Chemistry	Uric acid	Colorimetric	Fluid - Peritoneal
Chemistry	Uric acid	Colorimetric	Fluid - Pleural
Chemistry	Uric acid	Colorimetric	Fluid, as approved by Laboratory Physician
Chemistry	Uric acid	Colorimetric	Urine
Chemistry	Urinalysis, macroscopic	Reflectance Photometry	Urine
Chemistry	Urinalysis, microscopic	Microscopy - Phase contrast	Urine
Chemistry	Vancomycin	Turbidimetric	Blood - Plasma
Hematology	Activated partial thromboplastin time (aPTT)	Turbidimetric	Blood - Plasma
Hematology	Blood parasite antigen detection	Immunoassay, lateral flow	Blood - Venous whole blood
Hematology	Blood parasite identification	Stains, Routine	Blood - Venous whole blood
Hematology	Cell Count, Red Blood Cell (RBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Cerebrospinal
Hematology	Cell Count, Red Blood Cell (RBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Pericardial
Hematology	Cell Count, Red Blood Cell (RBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Peritoneal

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Hematology	Cell Count, Red Blood Cell (RBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Pleural
Hematology	Cell Count, Red Blood Cell (RBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Synovial
Hematology	Cell Count, Red Blood Cell (RBC)	Hemocytometer	Blood - Venous whole blood
Hematology	Cell Count, Red Blood Cell (RBC)	Hemocytometer	Fluid - Cerebrospinal
Hematology	Cell Count, Red Blood Cell (RBC)	Hemocytometer	Fluid - Pericardial
Hematology	Cell Count, Red Blood Cell (RBC)	Hemocytometer	Fluid - Peritoneal
Hematology	Cell Count, Red Blood Cell (RBC)	Hemocytometer	Fluid - Pleural
Hematology	Cell Count, Red Blood Cell (RBC)	Hemocytometer	Fluid - Synovial
Hematology	Cell Count, White Blood Cell (WBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Cerebrospinal
Hematology	Cell Count, White Blood Cell (WBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Pericardial
Hematology	Cell Count, White Blood Cell (WBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Peritoneal
Hematology	Cell Count, White Blood Cell (WBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Pleural
Hematology	Cell Count, White Blood Cell (WBC)	Flow cytometry & Impedance counting & Turbidimetric, combined	Fluid - Synovial
Hematology	Cell Count, White Blood Cell (WBC)	Hemocytometer	Blood - Venous whole blood
Hematology	Cell Count, White Blood Cell (WBC)	Hemocytometer	Fluid - Cerebrospinal
Hematology	Cell Count, White Blood Cell (WBC)	Hemocytometer	Fluid - Pericardial
Hematology	Cell Count, White Blood Cell (WBC)	Hemocytometer	Fluid - Peritoneal
Hematology	Cell Count, White Blood Cell (WBC)	Hemocytometer	Fluid - Pleural
Hematology	Cell Count, White Blood Cell (WBC)	Hemocytometer	Fluid - Synovial
Hematology	Cell morphology - Routine stain(s)	Digital Image	Blood - Venous whole blood
Hematology	Cell morphology - Routine stain(s)	Microscopy - Bright Field	Blood - Venous whole blood
Hematology	Cell morphology - Routine stain(s)	Microscopy - Bright Field	Fluid - Cerebrospinal
Hematology	Cell morphology - Routine stain(s)	Microscopy - Bright Field	Fluid - Pericardial
Hematology	Cell morphology - Routine stain(s)	Microscopy - Bright Field	Fluid - Peritoneal
Hematology	Cell morphology - Routine stain(s)	Microscopy - Bright Field	Fluid - Pleural
Hematology	Cell morphology - Routine stain(s)	Microscopy - Bright Field	Fluid - Synovial
Hematology	Complete Blood Count (CBC) - 5 part differential	Flow cytometry & Impedance counting & Turbidimetric, combined	Blood - Venous whole blood
Hematology	D-dimer	Immunoturbidometry	Blood - Plasma

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Hematology	Eosinophils in secretions, excretions and other body fluids	Microscopy - Bright Field	Fluid - Nasal Secretions
Hematology	Eosinophils in secretions, excretions and other body fluids	Microscopy - Bright Field	Sputum
Hematology	Eosinophils in secretions, excretions and other body fluids	Microscopy - Bright Field	Stool
Hematology	Eosinophils in secretions, excretions and other body fluids	Microscopy - Bright Field	Urine
Hematology	Fibrinogen	Turbidimetric	Blood - Plasma
Hematology	Infectious mononucleosis	Immunoassay, lateral flow	Blood - Plasma
Hematology	Infectious mononucleosis	Immunoassay, lateral flow	Blood - Serum
Hematology	Infectious mononucleosis	Immunoassay, lateral flow	Blood - Venous whole blood
Hematology	International normalized ratio (INR)	Calculated	Blood - Plasma
Hematology	WBC differential	Digital Image	Blood - Venous whole blood
Hematology	WBC differential	Microscopy - Bright Field	Blood - Venous whole blood
Hematology	WBC differential	Microscopy - Bright Field	Fluid - Cerebrospinal
Hematology	WBC differential	Microscopy - Bright Field	Fluid - Pericardial
Hematology	WBC differential	Microscopy - Bright Field	Fluid - Peritoneal
Hematology	WBC differential	Microscopy - Bright Field	Fluid - Pleural
Hematology	WBC differential	Microscopy - Bright Field	Fluid - Synovial
Hematology	WBC differential	Stains, Routine	Blood - Venous whole blood
POCT	Glucose	Electrochemistry	Blood - Capillary whole blood
POCT	Hemoglobin (Hb)	Spectrophotometry	Blood - Arterial whole blood
POCT	Hemoglobin (Hb)	Spectrophotometry	Blood - Venous whole blood
POCT	Human chorionic gonadotropin (hCG) Qualitative	Immunoassay	Urine
POCT	Urinalysis, macroscopic	Reflectance Photometry	Urine
Sample Collection	Sample Collection	Capillary	Blood
Sample Collection	Sample Collection	Providing patient instructions for self-collected samples	Sputum
Sample Collection	Sample Collection	Providing patient instructions for self-collected samples	Stool
Sample Collection	Sample Collection	Providing patient instructions for self-collected samples	Swab
Sample Collection	Sample Collection	Providing patient instructions for self-collected samples	Urine
Sample Collection	Sample Collection	Venipuncture	Blood

DAP Scope Classification	Examination (Analyte/Procedure)	Methodology/principle	Sample Type
Sample Collection	Sample Processing	Receipt, accessioning, storage, transportation, disposal	Blood
Sample Collection	Sample Processing	Receipt, accessioning, storage, transportation, disposal	Fluid
Sample Collection	Sample Processing	Receipt, accessioning, storage, transportation, disposal	Foreign bodies
Sample Collection	Sample Processing	Receipt, accessioning, storage, transportation, disposal	Sputum
Sample Collection	Sample Processing	Receipt, accessioning, storage, transportation, disposal	Stool
Sample Collection	Sample Processing	Receipt, accessioning, storage, transportation, disposal	Swab
Sample Collection	Sample Processing	Receipt, accessioning, storage, transportation, disposal	Tissue
Sample Collection	Sample Processing	Receipt, accessioning, storage, transportation, disposal	Urine
Transfusion Medicine	Antibody investigation	Serological - Gel	Blood - Plasma
Transfusion Medicine	Antibody screening	Serological - Gel	Blood - Plasma
Transfusion Medicine	Direct antiglobulin test (DAT)	Blood banking test system, Automated	Blood - Red Cells
Transfusion Medicine	Direct antiglobulin test (DAT)	Serological - Gel	Blood - Red Cells
Transfusion Medicine	Fetal maternal hemorrhage/fetal red cell detection – qualitative	Serological - Manual	Blood - Red Cells
Transfusion Medicine	Modification of Blood Products, Pooling	N/A	N/A
Transfusion Medicine	Receipt, Storage and Issue Blood Products	N/A	N/A
Transfusion Medicine	Rh (D) typing	Serological - Manual	Blood - Red Cells
Transfusion Medicine	Rh (D) typing	Serological - Manual	Blood - Venous whole blood