Proper test name or Associated Disease with MIM Phenotype Number	MSSS Test Code	HGNC Gene Symbol and OMIM Gene Number	Handling Conditions	Test Site	Test Detail	Method	Special Comment	Updated
1,5-anhydroglucitol (GlycoMark) [500115] [GLYC]	1467		Gold Top or Red Top (Serum) or Lavender (plasma). Centrifuge and aliquot serum to transport tube within one hour of collection. Store and ship forzen. Stable at -20°C for 14 days.	LabCorp/Dynacare (https://www.labcorp.com/)		Enzymatic, colorimetric assay.	SUSPENDED	10-Jan-21
15 Mold Panel	1467			In-Common Laboratories	Done at Alletess			12-Mar-20
2,3-Dinor-11Beta-Prostaglandin F2 Alpha, 24 Hour, Urine [23BPT]	1		Urine. No preservative. Collect for 24-h or random sample. Refrigeate 4°C during collection. Store frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	systemic mastocytosis; mast cell activation disorders including systemic mastocytosis; Replaces 11 BETA-PROSTAGLANDIN F2 ALPHA	LC-MS/MS	Replaced by Mast Cell Mediators. May also order Leukotriene E4	28-Jul-26
21-Hydroxylase Antibodies, Serum [21OHAB]			Red Top. Store serum frozen	In-Common Laboratories	autoimmume adrenal failure	Available at CHUM	Semt to USA	
21-Hydroxylase Antibodies, Serum [OH21]			Red Top. Store serum frozen	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	autoimmume adrenal failure	Available at CHUM		
34-plex Cytokine Panel	1523		Red To tube only. (Serum.) Store at -20°C.	OncoHelix				08-Jun-26
5-Methyltetrahydrofolate (CSF) [NC01]			Collect 1 milliliter of CSF. Spin sample if contaminated with red blood cells and freeze the clear CSF at -80°Celsius. Store frozen at -80°Celsius.	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Cerebral folate deficiency			14-May-20
5'Nucleotidase	4		Serum. Stable 4h at RT, 7 days at 4°C or 14 days at -20°C.	Dynacare		enzymatic	SUSPENDED. Requires preapproval as test is of limited utility	22-Oct-20

68KD (HSP-70) Antibodies [F68KD]	1280		Red Top (preferred); Gold SST. Store at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	autoimmune hearing loss	No longer available at CHUQ: Anticorps anti-oreille interne (anticochlee) [2086]		03-May-22
8-hydrox-acyclovir and 9-carboxymethy guanosine	1465		Serum. Red Top preferred over gel.	Karolinska University Hospital at Huddinge Clinical Pharmacology Laboratory, C2:69 SE-141 86 Stockholm		LC-MS/MS		08-Jan-22
Amyloid-ß (beta) 42/40 Ratio	140		For CSF, use Sarstedt CSF Tube 62.610.018. Collect CSF directly into Sarstedt tubes and fill the tube 50% to 80% minimum. The specimen must not be aliquoted from a regular collection tube. If the first 1mL collected is hemolyzed, discard and continue collection with a new tube.	BC Neuroimmunology (bcneuro.ca)	Less discimination than p217 on SIMOA		Requires: Neurodegenerative Profile Requisition Form	02-Jun-26
a1-Acid glycoprotein [A1AGP]			Serum. Freeze if > 72 hours	In-Common Laboratories	Other names: Orosomucoid, Acid Glycoprotein, Alpha 1 Acid Glycoprotein	Nephelometry		06-Sep-18
Acetaminophen [ACETA]			Serum	In-Common Laboratories	quantitation; to determine clearance			06-Sep-18
Acetylcholine Receptor Antibodies, quantitative (AChR Ab) (91020/91021)	18		Serum (Gold SST) ONLY. Store at -20°C.	BC Neuroimmunology (bcneuro.ca)	myasthenia gravis	RIPA -first performed 91020 qualitative test. If positive than 91021 quantitative test		02-Jun-26
Acetylcholine Receptor Antibodies with reflex to Muscle Specific Tyrosine Kinase Antibodies (MuSK Ab)	18		Serum (Gold SST) ONLY. Store at -20°C.	BC Neuroimmunology (bcneuro.ca)	myasthenia gravis	RIPA		02-Jun-26

Acetylcholine Receptor Antibody [ACRAB]	18		Red Top; Gold SST. Store and send serum at -20°C.	In-Common Laboratories	myasthenia gravis	RIA	CHUS: Ac anti Récepteur acétylcholine	17-Feb-23
ACUTE PROMYELOCYTIC LEUKEMIA, INDUCER OF; PML (102578)		PML (102578)	Lavender Top (EDTA)	Jewish General	Leukemia, acute promyelocytic, PML/RARA type		PML/RARA FUSION GENE, INCLUDED	
Acyclovir, Serum/Plasma [0158SP]	1325		Red Top or Lavender Top (NOT SST). Store frozen at -20°C.	NMS Laboratories		LC-MS/MS		27-Apr-22
Adalimumab	10		Serum. Stable 48 h at RT, 5 days at 4°C, or 30 days at -20°C.	Dynacare Next	Humira®	ELISA	Available at HMR	24-Oct-18
Adalimumab (Anser ADA) [3170]	10		Gold SST or Red Top	Prometheus Therapeutics and Diagnostics		Quote 98765	Dynacare Next; Available at HMR	24-Oct-18
ADAR Full Gene Sequencing Analysis [MOL309]		ADAR (146920)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Aicardi-goutieres syndrome 6 (615010); Dyschromatosis symmetrica hereditaria	Sanger sequencing	COMPANY OPERATION SUSPENDED	14-May-20
Adenosine Deaminase and Purine Nucleoside Phosphorylase	11		Guthere card spotted with whole EDTA blood + 1 mL EDTA plasma. Keep at RT.	Michael Hershfield, M.D. Room 235 Sands Building 303 Research Dr, Duke Univ Med Cent Durham, North Carolina 27710 USA Tel 1: 919-684-4184 Tel 2: 919-684-2622				12-Nov-25
Adenosine Deaminase, Pleural Fluid [FADPF]	11		Must be frozen within 24 hours of collection. No freeze/thaw cycles.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Ultraviolet Spectrophotometry	Same price for periotioneal fluid [FADFL]	26-May-26
Adiponectin [FADIO]			Draw blood in a plain red-top or Gold SST, serum gel tube(s) is acceptable. Spin down and send 1 mL of serum refrigerated in a plastic vial. Store frozen. Overnight fasting is required.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		ELSIA	HIC: RUO	31-Oct-20

Admark® Alzheimer's Evaluation, CSF (FDA Cleared) [92433]{Replaces: ADmark® Phospho-Tau/Total-Tau/Ab42 Analysis & Interpretation, CSF (Symptomatic) [177]}	596	Beta-Amyloid (1-42), CSF tTau, CSF pTau181, CSF tTau/Abeta42 Ratio pTau181/Abeta42 Ratio	Cerebrospinal Fluid (CSF), 1 mL. Only acceptable tube: CSF tube 63.614.625 (Sarstedt). Specimen Stability Room temperature: 5 days Refrigerated: 14 days Frozen: 56 days.	Quest Diagnostics	Alzheimer Disease (104300)	ECLIA	Has special draw instructions. SUSPENDED PERMANENTLY Equivalent testing abailable at BC Neuroimmunology.	22-Dec-25
Adrenal hyperplasia due to 21-hydroyxlase deficiency (201910)	1326	CYP21A2 (613815)	Lavender Top (EDTA)	Alberta Mol Dx Laboratory (Calgary)		Sanger sequencing & MLPA	SEND to BLUEPRINT for CAH Panel	23-Jan-25
Afirma GEC	1680		Fine needle aspirate	Groupe TMTC (https://grouptmtc.com)			ON HOLD. Requires approval by head of OOP	21-Jan-21

Agammaglobulinemia Panel, Sequencing (9 Genes) and Deletion/Duplication (6 Genes) [2011151]	999	BLNK, BTK, CD79A, CD79B, IGHM, IGLL1, LRRC8A, PIK3R1, SH2D1A	Lavender Top (EDTA)	ARUP Laboratories (www.aruplab.com)	Agammaglobulinemia 1, Autosomal Recessive ◦ X-Linked Agammaglobulinemia ◦ SH2D1A-Related Lymphoproliferative Disease, X-Linked ◦ Agammaglobulinemia 2, Autosomal Recessive ◦ Agammaglobulinemia 3, Autosomal Recessive ◦ Agammaglobulinemia 4, Autosomal Recessive ◦ Agammaglobulinemia 5, Autosomal Dominant ◦ Agammaglobulinemia 6, Autosomal Recessive ◦ Agammaglobulinemia 7, Autosomal Recessive	Massively Parallel Sequencing/Exonic Oligonucleotide-based CGH Microarray	See at HSJ: Panel virtuel global de gènes associés aux erreurs innées de l'immunité IMPORTANT : cette analyse doit être demandée en trio et est réservée aux cas pédiatriques (moins de 18 ans)	2026/06/02
AGXT Gene, Full Gene Analysis [AGXMS]		AGXT (604285)	Lavender Top (EDTA)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Hyperoxaluria, primary, type 1 (259900)	Sanger sequencing and MLPA		
aHUS (complement mediated TMA) Panel [aHUS-FP]	1306	C3, C3c, C4, C5, FD, FB, Ba, Bb, properdin, soluble C5b-9, Hi, FH, CH50, APFA, FHAA, FBAA, C3b deposition, Fluid pahse activity-IFE	2 mL serum RED TOP ONLY + 2 mL frozen EDTA plasma. Store frozen.	Molecular Otolaryngology & Renal Research Laboratory, U. of Iowa Carver College of Medicine (www.medicine.uiowa.edu/morl)			replaces TMA Funcional Panel	01-Mar-25

Aicardi-Goutieres Syndrome (NextGen Sequencing Panel and Copy Number Analysis; 6 Genes) [NGS344]		ADAR (601059); ALDH7A1 (107323); RNASEH2A (606034); RNASEH2B (610326); RNASEH2C (610330); SAMHD1 (606754); TREX1 (606609)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Aicardi-Goutieres Syndrome	NextGen Sequencing	COMPNAY OPERATION SUSPENDED	14-May-20
ALA Dehydratase [ALAD]			Green Top (Na heparin), 4°C only.Do not freeze. Send M-W only.	In-Common Laboratories	Aminolevulinic Acid Dehydratase Deficiency Porphyria (612740)		Sent to USA	06-Sep-18
Albendazole	1917		RED TOP ONLY. Serum without gel, centrifuge immediately after collection. Stable 1 day at RT & 7 day at 4°C. Store at -80°C. and ship with dry ice	Inselspital Bern Freiburgstrasse 10 Zentrum für Labormedizin Zentrale Annahme INOF / z. Hd. Y. Aebi CH-3010 Bern, Switzerland	Measures albendazole sulfoxide due to 1st pass effcets	LC-MS/MS		13-Oct-26
Albright's hereditary Osteodystrophy (103580)	440	GNAS (139320)	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)	Albright's hereditary Osteodystrophy (103580)	NextGen Sequencing		26-Mar-25
Alexander Disease via the GFAP Gene [3775]	979	GFAP (137780)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Alexander disease (203450)	Sanger sequencing		10-Jul-23
Alpha aminoadipic semialdehyde (Urine) [MET20]	12	Alpha-aminoadipic semialdehyde	Collect 1 milliliter urine (random) and freeze at -20°Celsius. Store frozen at –20°Celsius and ship frozen.	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Pyridoxine-dependent epilepsy (266100)	MS/MS	COMPANY OPERATION SUSPENDED	14-May-20
Alpha aminoadipic semialdehyde (Whole Blood) [AASA]	12	Alpha-aminoadipic semialdehyde	Specimen: Whole Blood Container(s): Dark Green/Sodium Heparin or Lt. Green/Lithium Heparin Tube. **Reject due to**: If sample is not spun and frozen within 1 hour of collection. 48 hr storage at -20°C is acceptable. Store **plasma** at -70°C for 6 months.	Seattle Children's Hospital. http://seattlechildrenslab.testcatalog.org/	Pyridoxine-dependent epilepsy (266100)		Accepted	29-May-25

Alpha Thalassemia Sequence HBA1 and HBA2 330 (Unknown alpha-chain Hemoglobin Variants)	820	HBA1 (141800)/HBA2 (141850)	Lavender Top (EDTA)	Clinical Genetics Laboratory, Juravinski Hospital, Hamilton, ONT	also availble at CHUM		Review AH612 for test sought as req is non-specific	10-Nov-25
Alpha-1-Antitrypsin Clearance, Feces and Serum [A1AFS]	1467		Both feces and serum are required. Blood must be drawn during the stool collection period.**Specimen Type**: Serum Collection Container/Tube: Red top or serum gel. Collection Instructions: Centrifuge within 2 hours. **Specimen Type: Feces** Supplies: Stool Containers - 24, 48, 72 Hour Kit (T291) Container/Tube: Stool container Specimen Volume: Entire collection Collection Instructions: 1. Collect a 24-hour fecal collection. 2. If no specimen is obtained within 24 hours, extend collection time to 48 to 72 hours. Stable for 14 d at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	protein-losing enteropathy	Immunonephelometry		25-Oct-24
ALPHA-1-ANTITRYPSIN DEFICIENCY (613490)	1395	SERPINA1 (104400)	Lavender Top (EDTA)	Attn: Norine Freedman or Lynn Coleman Special Chemistry Laboratory St Paul's Hospital 1081 Burrard Street Vancouver, B.C. V6Z 1Y6. Contact Dr. A. Mattman BEFORE sending sample.	ALPHA-1-ANTITRYPSIN DEFICIENCY (613490)	Sanger sequencing	Send to Fulgent.	
ALPHA-1-ANTITRYPSIN DEFICIENCY (SERPINA1 Single Gene Test) (613490)	1395	SERPINA1 (104400)	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)	ALPHA-1-ANTITRYPSIN DEFICIENCY (613490)		Preferred	26-Mar-52

Alpha-1-Antitrypsin, Random, Feces [A1AF]	1467		Homogenized Stool: 1 mL. Stable for 14 d at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	protein-losing enteropathy	Immunonephelometry	Surrogate Marker	25-Oct-24
Alpha-aminoadipic semialdehyde (CSF) [NC08]	12	Alpha-aminoadipic semialdehyde	Collect 1 milliliter of CSF. Spin sample if contaminated with red blood cells and freeze the clear CSF at -80°Celsius. Store frozen at -80°Celsius.	MNG Laboratories (www.medicalneurogenetics.com)/Dyncare	Pyridoxine-dependent epilepsy (266100)	MS/MS	COMPANY OPERATION SUSPENDED.Seattle for Heparin plasma	14-May-20
Alpha-Subunit Pituitary Tumor Marker, Serum [APGH]	55		Red Top	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Alternate name: Alpha Glycoprotein Subunit			19-Dec-24
Alpha-Thalassemia (604131)	826	HBA1 (141800); HBA2 (141850)	Lavender Top (EDTA)	Molecular Genetics Laboratory - McMaster University Medical Centre	targeted mutations at HSJ	Sanger sequencing & del/dupl	Also available at CHUM	23-Jan-23
Alport Syndrome NGS Panel	785	COL4A3, COL4A4, COL4A5 COL4A6	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		26-Mar-25
Alzheimer Disease, Familial or Cerebral Amyloid Angiopathy via the APP Gene [4557]	598	APP (104760)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		NGS	For known mutations only. Otherwise use Fulgent panel.	10-Jul-23
AMELOGENESIS IMPERFECTA VIA THE DLX3 GENE [9061]		DLX (600525)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Tricho-Dento-Osseous Syndrome (190320); Amelogenesis Imperfecta, Type IV (104510)	NextGen Sequencing		10-Jul-23
Aminolevulinic Acid Dehydratase (ALAD), Whole Blood [ALAD]			Green Top, 4°C only	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Aminolevulinic Acid Dehydratase Deficiency Porphyria (612740)			31-Oct-20
AMYLOID PROTEIN ID, PAR, LC MS/MS [AMPIP]	1123		Paraffin section	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS/MS	ADD CHARGE FOR MICRODISSECTION $1216.10 [MLCPC] & MS $259.90 [MSPTC]	06-Jun-25
Amyloid Related Disorders [NGS380]	1377		Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NGS	COMPANY OPERATION SUSPENDED	21-Mar-23
Amyotrophic Lateral Sclerosis / Motor Neuron Disease via the FUS Gene [6927]	853		Lavender Top (EDTA) 2 x 4 mL	Prevention Genetics (www.preventiongenetics.com)		NextGen Sequencing	Transferred to MUHC	04-Oct-23

Amyotrophic Lateral Sclerosis and Frontotemporal Dementia Panel [10359]	853	ANG ANXA1APP ARHGEF28 ATXN2 C9orf72 CFAP410 CHCHD10 CHMP2B DAO DCTN1 ERBB4 FIG4 FUS GRN HNRNPA1 HNRNPA2B1 ITM2B KIF5A MAPT MATR3 MOBP NEFH 9 NEK1 OPTN PFN1 PSEN1 PSEN2 SETX SOD1 SQSTM1 TAF15 TARDBP TBK1 TREM2 TUBA4UBQLN2 UNC13A VAPB VCP	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Frontotemporal Dementia And/Or Amyotrophic Lateral Sclerosis (105550), Amyotrophic Lateral Sclerosis Type 6 (608030); Amyotrophic Lateral Sclerosis Type 9 (611895); Amyotrophic Lateral Sclerosis Type 1 (105400); Amyotrophic Lateral Sclerosis Type 10 (612069); Amyotrophic Lateral Sclerosis Type 12 (613435)	NextGen Sequencing		10-Jul-23
Andersen-Tawil syndrome (170390)		KCNJ2 (600681)	Lavender Top (EDTA)	Invitae (www.invitae.com)	ANDERSEN CARDIODYSRHYTHMIC PERIODIC PARALYSIS (proper name); Andersen syndrome (170390), long QT syndrome 7, PERIODIC PARALYSIS, POTASSIUM-SENSITIVE CARDIODYSRHYTHMIC TYPE			10-Jul-23
Anemia Panel [HE0401]	1582		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NGS		12-Nov-24

Angelman Syndrome: Methylation and Copy Number Analysis	311	SNRPN	Lavender Top (EDTA)	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children		Methylation-Specific-MLPA of SNPRN		19-Feb-20
Angelman Syndrome: UPD 15 Analy	311		Lavender Top (EDTA)	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children		STR analysis		19-Feb-20
Angiotensin Converting Enzyme (ACE), CSF	1919		CSF. Store Frozen	In-Common Laboratories				
Anser IFX (infliximab) [3150]			Gold SST or Red Top	Prometheus Therapeutics and Diagnostics	Remicaide®	Quote 98765		
Anti-AAV9 Antibody Screening	1467		Serum. Use Gold SST. Store frozen.	Viroclinics Biosciences	Use NPC			12-Dec-22
Anti-Myelin Oligodendrocyte Glycoproteins antibody (Anti-MOG)	157		CSF or Serum (Red Top OR Gold SST). Stable for 1 week at 4°C. Store at -20°C. (CSF is ususallynot an appropriate sample as Ab is made by plasma cells peripheraly.)	BC Neuroimmunology (bcneuro.ca)		CBA live. Confirmation by IHC.	Anti-Aquaporin 4 (Anti-AQP4 Ab) $125; Anti-Myelin Oligodendrocyte Glycoproteins antibody (Anti-MOG) $125. Use same code. Only on rare occasions, MOG testing is done on CSF as its utility is uncertain; serum is 1st choice.	04-Jun-26
Anti-Aquaporin 4 (Anti-AQP4 Ab)			CSF or Serum (Gold SST). Store at -20°C. (CSF is ususally not an appropriate sample as Ab is made by plasma cells peripheraly.)	CHUM			No longer available as OOP if single test. AQP$+MOG panel allowed	11-Jun-26
Anti-AT1R Antibody	1467		Serum. Store frozen.	London Laboratories Service Group - Transplant Laboratory				31-Aug-21
Anti-C1Q Ab, IgG, Serum [C1QABS]	1402		Serum. Store at -20°C. Stable 1 year.	In-Common Laboratories		Semi-quantitative ELISA		25-Nov-25
Anti-DNAse B Titer, Serum [ADNAS]	1467		Serum (Gold or Red Top). Stable for 28 days at 4°C (preferred) or -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Nephelometry		23-Jul-23

Anti-Domain 1 Beta-2 Glycoprotein 1 (D1 ß2GP1) (IgG only)	1572	Serum		Mitogen Advanced Diagnostics	CIA			13-Jan-26
Anti-dsDNA (Double-stranded) Ab by Farr method (RDL) [520059]	1467		Serum (Red Top or Gold SST). Store at -20°C.	LabCorp/Dynacare (https://www.labcorp.com/)		RIA	SUSPENDED	23-Nov-20
Anti-DSF70	2004			Mitogen				13-Jan-26
Anti-**Elaprase** antibody	1406		Draw blood before infusion for patients on treatment. If a specimen is being drawn due to an infusion reaction, please wait between 4 and 24 h to allow ERT to clear from blood. Collect 6 ml of blood (3 ml serum to send frozen the day of collection ; if not possible to send it the same day of collection keep frozen at - 80C until shipping)	LabCorp (https://www.labcorp.com/)	Antibody produced in patients on Enzyme Replacement Therapy for Hunter syndrome (MPSII)		SUSPENDED	
Anti-Enterocyte Antibodies, Serum Analysis	1404		Red Top - Serum. Stable 1 week at 4°C. Store frozen.	The Children's Hospital of Philadelphia (https://www.testmenu.com/chop)				28-Jan-25
Anti-GAD 65 antibodies	29		CSF, Gold SST	Mitogen Advanced Diagnostics	stiff man syndrome	CBA	In Common labs Glutaminc Acid Decarboxylase (GAD65) Antibodies, Serum [GADAB S] $122.50; ANTICORPS ANTI-GAD65 (anti-glutamic acid decarboxylase 65kd) @ CHUM. SERUM and CSF.	02-Jun-26
Anti-GMCSF Autoantibodies [GMCSFA]	1279		Serum gel (Gold top); Freeze at -70°C.	National Jewish Health Laboratories		ELISA		23-May-19
Anti-IFNg Autoantibody [IFNGE]	1147		Gold SST or Red Top. 2-8°C for 48 hours, >1 month at -70°C	National Jewish Health Laboratories				18-Mar-21
Anti-IgA [FIGA]	908		Gold SST	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				04-Mar-21
Anti-IgLON5	1467		Gold SST	BC Neuroimmunology (bcneuro.ca)		CBA		18-Apr-24

anti-NMDA [Anti-récepteur glutamate NMDA (N-méthyl-D-aspartate)]			CSF only (Ab is made by plasma cells in CSF). Serum test available.	HSJ		IF	HSJ	20-Apr-18
Anti-Nucleolar Envelope/Membrane Test Panel	1741			Mitogen			RUO	13-Jan-26
Anti-Phospholipase A2 Receptor (anti-PLA2R)	49		Gold SST	Mitogen Advanced Diagnostics	Membranous Nephropathy/Nephritis; MEMBRANOUS NEPHROPATHY, SUSCEPTIBILITY TO; MBNP (%614692)	CBA	Avaialble at HMR	02-Jun-26
Anti-phosphotidylserine/prothrombin complex (PS/PT) (IgG+IgM)	1572	Serum		Mitogen Advanced Diagnostics	ELISA			13-Jan-26
Anti-TB Drug	58	Azithromycin; Ethambutol; Rifabutin; Isonazid; Pyrazinamide; Rifampin	Serum	National Jewish Health Laboratories	TDM	LC/GCMS/LCMS	Same price for all anti-TB drugs per determination	23-Feb-24
Anti-THSD7A (thrombospodin)	1467		Gold SST; store serum at -20°C	Mitogen Advanced Diagnostics	primary membranous nephropathy	CBA		13-Jan-26
Clsutered AChR Ab live cell-based assay (AChR Ab CBA)	1467		Serum (Gold SST). Store at -20°C.	BC Neuroimmunology (bcneuro.ca)	myasthenia gravis	CBA		02-Jun-26
Anticorps anti-21 hydroxylase			Gold SST; store serum at -20°C	CHUM	autoimmume adrenal failure			
Apixiban (anti-X)			Light Blue (2 tubes)	Biochemistry - JGH				07-Aug-18
Aripiprazole (Abilify) [FARI]	1142		Red top tube (Gold top SST tube not accepted)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS/MS		05-May-21

Arrhythmia Panel [CA1601]	289	ABCC9 AKAP9 ANK2 CACNA1C* CACNB2 CALM1* CALM2 CALM3 CASQ2 CAV3 CDH2 CTNNA3 DBH DSC2 DSG2 DSP C FLNC* GATA6 HADHA HCN4 KCNA5 KCNE1 KCNH2 KCNJ2 KCNJ5 KCNQ1 LDB3 LEMD2 LMNA MYH6 MYH7 MYL4 NKX2-5 NOS1AP PKP2#* PLN PPA2 RYR2 SALL4 SCN10A SCN1B SCN3B SCN5A TBX5 TECRL TGFB3 TMEM43 TNNI3 TNNI3K TNNT2 TRDN TRPM4 TTN*	Lavender Top (EDTA) [2 tubes]	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing		20-Feb-20
Arthritis Panel	1467		Serum gel (Gold top)	Mitogen Advanced Diagnostics				13-Jan-26
Aspergillus Antibody by Immunodiffusion [324]			Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial.STABILITY Refrigerated: 14 days Frozen: 6 months	MiraVista Diagnostics			Performed at CHUM. For Microbiology.	08-Sep-22
Ataxia Repeat Expansion Panel [4101]	583		Lavender Top (EDTA)	University of Chicago Genetic Services Laboratories			**This is stand alone entity. Do not confuse with Comprehenisve Ataxia Panel REFLEX.**	15-Oct-26

Ataxia/Episodic Ataxia Disorders (NextGen Sequencing Panel and Copy Number Analysis + mtDNA + FRDA Repeat Expansion Analysis) [NGS419]	583	AAAS (605378), AARS2 (612035), ABCB7 (300135), ABCC8 (600509), ABCD1 (300371), ABHD5 (604780), ACO2 (100850), ADCK3 (606980), ADSL (608222), AFG3L2 (604581), AHI1 (608894), ALDH5A1 (610045), ALG6 (604566), AMACR (NA), ANO10 (613728), APOPT1 (616003), APTX (606350), ARL13B (608922), ARL6 (608845), ARSA (607574), ASL (608310), ASS1 (603470), ATM (607585), ATN1 (607462), ATP1A2 (182340), ATP1A3 (182350), ATP8A2 (605870), ATPAF2 (608918), ATXN1 (601556), ATXN10 (603516), ATXN2 (601517), ATXN3 (607047), ATXN7 (607640), AUH (600529), B9D1 (614144), BBS1 (209901), BBS10 (610148), BBS12 (610683), BBS2 (606151), BBS4 (600374), BBS5 (603650), BBS7 (607590), BBS9 (607968), BCKDHA (608348), BCKDHB (248611), BCS1L (603647), BEAN1 (612051), BOLA3 (613183), BSCL2 (606158), BTD (609019), C10ORF2 (606075), C12orf65 (613541), C19orf12 (614298), C5ORF42 (614571), CA8 (114815), CACNA1A (601011), CACNA1G (604065), CACNB4 (601949), CAMTA1 (611501), CASK	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)		NextGen Sequencing	COMPANY OPERATION SUSPENDED	14-May-20

Ataxia/Episodic Ataxia Disorders (NextGen Sequencing Panel and Copy Number Analysis + mtDNA) [NGS324]	583	AAAS (605378), AARS2 (612035), ABCB7 (300135), ABCC8 (600509), ABCD1 (300371), ABHD5 (604780), ACO2 (100850), ADCK3 (606980), ADSL (608222), AFG3L2 (604581), AHI1 (608894), ALDH5A1 (610045), ALG6 (604566), AMACR (NA), ANO10 (613728), APOPT1 (616003), APTX (606350), ARL13B (608922), ARL6 (608845), ARSA (607574), ASL (608310), ASS1 (603470), ATM (607585), ATN1 (607462), ATP1A2 (182340), ATP1A3 (182350), ATP8A2 (605870), ATPAF2 (608918), ATXN1 (601556), ATXN10 (603516), ATXN2 (601517), ATXN3 (607047), ATXN7 (607640), AUH (600529), B9D1 (614144), BBS1 (209901), BBS10 (610148), BBS12 (610683), BBS2 (606151), BBS4 (600374), BBS5 (603650), BBS7 (607590), BBS9 (607968), BCKDHA (608348), BCKDHB (248611), BCS1L (603647), BEAN1 (612051), BOLA3 (613183), BSCL2 (606158), BTD (609019), C10ORF2 (606075), C12orf65 (613541), C19orf12 (614298), C5ORF42 (614571), CA8 (114815), CACNA1A (601011), CACNA1G (604065), CACNB4 (601949), CAMTA1 (611501), CASK	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED	14-May-20
Ataxia/Episodic Ataxia Disorders (NGS Panel and Copy Number Analysis + mtDNA+ SCA & FRDA Repeat Expansion Analysis) [NGS420]	583		Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED	13-Sep-22

Autism Spectrum Disorders and Intellectual Disability (ASD-ID) Comprehensive Sequencing Panel with CNV Detection [5045]	717	complete gene list available at https://www.preventiongenetics.com/documents/ASD_IDGeneList.pdf?07c00668	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Replaces Fulgent ID Panel when proband available only (adopted child…). If 'Trio' (proband + parents) send for Autism/ID Xpanded Panel at GeneDx (3500 USD for 3 samples)	NextGen Sequencing	ID available at HSJ.	28-Nov-24
Autism/ID Xpanded Panel [952]	717		Lavender Top (EDTA)	GeneDx (www.genedx.com)		NextGen Sequencing	ID available at HSJ.	04-Feb-25
Autoantibodies to interferon gamma [IFNGE]	1467		Serum (Red Top or Gold SST). Store at -70°C.	National Jewish Health Laboratories		ELISA		01-Oct-21
Autoimmune Dysautonomia Evaluation, Serum (ADE)			Red Top	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		IFA, RIA, EIA, WB, CBA		

Autoimmune Liver Diseases Profile, Serum [ALDAB S]	1330		Gold SST	In-Common Laboratories	Anti AMA-M2 Ab (Anti Mitochondrial M2 antibody); Anti M2-3E (BPO) Ab; Anti Sp100 Ab(Anti Sp100 nuclear antigen antibody); Anti PML Ab (Anti Promyelocytic leukemia factor antibody); Anti gp210 Ab (Anti Glycoprotein 210 antibody); Anti LKM-1 (Cytochrome P450 II D6) Ab (Anti Liver kidney microsomal type 1 antibody); Anti LC-1 Ab (Anti Liver cytosol type 1 antibody); Anti SLA/LP Ab (Anti Soluble liver antigen/liver-pancreas antibody); Anti SSA (Ro60) Ab; Anti Ro52 (TRIM21) Ab; Anti Scl-70 Ab(Anti Topoisomerase I antibody); Anti Centromere protein	immunoblot	Mitogen Discontinued	30-Mar-25
Autoimmune Myopathy /Myositis Profile PLUS (Includes Mup44 & Immune Mediated Necrotizing Profile)	153		Gold SST. Please store frozen. Does not accept CSF.	Mitogen Advanced Diagnostics	Jo-1, Mi2, Mi2-α, Mi2β, MDA5, NXP2, TIF1γ PL7, PL12, PM/Scl75, PM/Scl100, Ku, SRP, EJ, OJ, Ro52, HMGCR, anti-NT5C1 A/Mup44	LIA, ELISA, ALBIA (LDT)	See Panel Myosite at CHUM	15-Oct-26

Autoimmune Polyendocrinopathy Syndrome Type 1 via the AIRE Gene [1224]		AIRE (607358)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		Sanger sequencing		10-Jul-23
Autoimmune Retinopathy Panel by Immunoblot [ARP]	720		Serum. Store at 4°C. DO NOT FREEZE.	Ocular Immunology Laboratory, OHSU Biomedical Research Building, Room 253 3181 SW Sam Jackson Park Road Portland, OR 97239, USA	CAII (carbonic anhydrase II), HSP27 (heat shock protein 27), GAPDH (glyceraldehyde 3-phosphate dehydrogenase), Aldolase, Enolase, Arrestin, Tubulin, PKM2 (pyruvate kinase M2)	Immunoblot		17-Sep-24
Autoinflammatory and Autoimmunity Syndromes Panel [08120]	838		Lavender Top (EDTA)	Invitae (www.invitae.com)/Dynacare		NextGen Sequencing	Suspended	28-Apr-25
Autoinflammatory Syndrome Panel [IM0201]	838		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing	55409 – Panel virtuel ciblé de gènes associés aux maladies auto-inflammatoires analysé à partir de l'exome (compilation seulement) (RQDM). Assigned to HSJ but NOT available yet.	13-Jan-26
Avian IgG Antibodies Panel, Serum (Budgie and Pigeon)	1419		Red Top; Gold SST	In-Common Laboratories	budgie = parakeet	FEIA	Avian Precipitans not available in QC	10-Mar-20
Avian Precipitins: Budgie IgG Antibodies	1419		Red Top; Gold SST	In-Common Laboratories	Available at CHUQ (perruche/plumes); budgie = parakeet	FEIA		08-Nov-18
Avian Precipitins: Cockatiel	1419		Red Top; Gold SST	In-Common Laboratories	Available at CHUQ (perruche/plumes)	CIEP	ON HOLD	06-Sep-18
Avian precipitins: Parrot IgG Antibodies	1419		Red Top; Gold SST	In-Common Laboratories	Available at CHUQ (perroquet/plumes))	FEIA		08-Nov-18
Avian precipitins: Pigeon IgG Antibodies	1419		Red Top; Gold SST	In-Common Laboratories		FEIA	See Avian IgG Antibodies panel	08-Nov-18

Baller-Gerold syndrome (218600)		RECQL4 (603780)	Lavender Top (EDTA)	Centogene AG (www.centogene.com)		1. single exon testing 2. full gene sequencing 3. deletion/duplication testing		
Barium			Urine - metal free container	INSPQ	Alternate: Hospitals-In- Common			
Bartter Syndrome NGS Panel	804	Bartt	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)				26-Mar-25
Basal Ganglia Calcification NGS Panel	1192	CA2; MYORG; PDGFB (190040); PDGFRB; SLC20A2 (158378); XPR1	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)	Basal ganglia calcification, idiopathic, 5 (615483); Basal ganglia cancification, idiopathic, 1 (213600)	NextGen Sequencing		2025/03/26
Beckwith-Wiedemann syndrome: CDKN1C Sequencing (Step 3)	571	CDKN1C (600856)	Lavender Top (EDTA) [2 tubes]	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children	Wiedemann-Beckwith Syndrome (130650)			19-Feb-20
Beckwith-Wiedemann syndrome: Methylation & Copy Number (Step1)	571		Lavender Top (EDTA) [2 tubes]	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children	Wiedemann-Beckwith Syndrome (130650)	Methylation-Specific-MLPA of imprinting centers 1 and 2		19-Feb-20
Beckwith-Wiedemann syndrome: UPD11 Analysis (Step 2)	571	H19 (103280); KCNQ1OT1 (604115); CDKN1C (600856)	Lavender Top (EDTA) [2 tubes]	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children	Wiedemann-Beckwith Syndrome (130650)	UPD11 studies via STR (short tandem repeat) analysis.		19-Feb-20
Beta Thalassemia Sequence HBB (Unknown beta-chain Hemoglobin Variants)	820	HBB (141900)	Lavender Top (EDTA)	Clinical Genetics Laboratory, Juravinski Hospital, Hamilton, ONT	also availble at MUHC		Review AH612 for test sought as req is non-specific	10-Nov-25

Beta-2 Glycoprotein 1 Antibodies, IgM, Serum [MB2GP]	1572		Serum gel (Gold top)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Evaluation of suspected cases of antiphospholipid syndrome	ELISA	Available at CHUQ> IgA and IgM combined.. Stable for <3h at RT. Store at -20°C. Also availabe at CHUM.	21-Apr-26
Beta-Thalassemia (613985)	823	HBB (141900)	Lavender Top (EDTA)	Molecular Genetics Laboratory - McMaster University Medical Centre		Sanger sequencing	Also avaialble at MUHC (CMDL)	23-Jan-23
Bile Acids for Peroxisomal Disorders, Serum [BAIPD]	9		Serum. Store at 4°C or -20°C. Stable for 90 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS/MS		08-Nov-23
bipterin	763	CFTR (602421)	Lavender Top (EDTA)	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children (www.sickkids.ca/paediatriclabmedicinems/lab-divisions/genome-diagnostics/genome-diagnostics.html#genome)	Cystic Fibrosis (219700)	Sanger sequencing	Available at MUHC	08-Jan-20
Birt-Hogg-Dubé Syndrome (FLCN Single Gene Test)	740	FLCN (607273)	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)		NGS		26-Mar-25
Blastomyces Antibody by EIA, Serum [BLAST]	491		Red Top	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Enzyme Immunoassay (EIA)	Reserved for Microbiology	31-Oct-20
Blastomyces Antibody by Immunodiffusion [322]	491		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. STABILITYRefrigerated: 14 days Frozen: 6 months	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22

Blastomyces Quantitative EIA [316]	491		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. Plasma: Collect plasma specimens in an EDTA, heparin or sodium citrate tube. Centrifuge for 15 minutes and pipette plasma into a plastic screw cap vial. Urine/CSF/BAL/Other Body Fluid: Submit urine, CSF, BAL and all other body fluids in a sterile screw cap container.STABILITY Room Temperature: 2 weeks Refrigerated: 2 weeks Frozen: Indefinitely	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22
Bloc surrénalien (Prégnénolone, 17-OH prégnénolone, 17-OH progestérone et 11-désoxycortisol)				CHUS	30077 C Bio-Hormone; Rapport Supra 25,0	LCMS		
Bone Marrow Failure Syndrome Panel [HE0801]	1427	135 genes	Lavender Top (EDTA) [2 tubes]	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing		28-Feb-20
BP 180 and BP230	750		Serum	Immunodermatology Laboratory Department of Dermatology 30 North 1900 East, 4A330 SOM Salt Lake City, Utah 84132 Email: immunoderm@hsc.utah.edu		ELISA	$132.32 US	14-Sep-20

Bradykinin (BK) Comprehensive panel	1467		Blood Specimen Collection and Shipment Requirements: For Bradykinin Comprehensive Panel and Plasma Kallikrein Activity Test, completely fill one 4 mL lavender top EDTA tube with whole blood. Ship the specimen, this form, and any accompanying documents overnight with a frozen ice pack on the day of collection. The specimen may be rejected if not received within 24 hours of collection.	VIRANT Diagnostics			Testing is not feasible as sample must arrive within 24 h of collection. Do NOT approve.	01-Oct-26
Brain-Iron Accumulation NGS Panel	11213	ATP13A2, C19orf12, COASY, CP, DCAF17, FA2H, FTL, GTPBP2, PANK2, PLA2G6, SCP2, WDR45	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		26-Mar-25
Breast and Gynaecological Cancer Specific Panel	227		Lavender Top (EDTA)	Invitae (www.invitae.com)	This is a special panel from the Cedars cancer Centre.	Next-Generation sequencing	Available at MUHC.	10-Jul-23

Breast Cancer Panel (Invitae) [01202]	227	ATM (), BARD1 (), BRCA1 (113705), BRCA2 (600185); BRIP1(), CDH1 (192090); CHEK2 (), NBN (), NF1 (), PALB2 (601728) PTEN (601728), RAD50 () STK11 (602216), TP53 (191170)	Lavender Top (EDTA)	Invitae (www.invitae.com)	Breast-Ovarian Cancer, Familial, type 1 (604370); Breast-Ovarian Cancer, Familial, type 2 (612555); Ovarian carcinoma, somatic (167000); Fanconi anemia, complementation group N (610832); PTEN hamartoma tumor syndrome (_); Pancreatic cancer (260350); Peutz-Jeghers syndrome (175200); Breast cancer (114480)	Next-Generation sequencing	Available at MUHC.	10-Jul-23
Brivaracetam [0718SP]	1467		Red Top or Lavender Top only. Store and send serum/plasma frozen.	NMS laboratories		LC-MS/MS		17-Mar-22
Bromine - Total Blood [FBROM]	1467		Royal Blue (EDTA) top tube	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		ICP/MS	INSPQ?? TO BE VERIFIED - NO	30-Apr-21
Bullous Autoimmune Skin Disease Panel: Anti-BP180. BP230, Desmoglein-1, Desmpglein-3	750		Serum gel (Gold top)	Mitogen Advanced Diagnostics	BP180, BP230, Desmoglein 1, Desmoglein 3	CBA		13-Jan-26
C1 Esterase Inhibitor Panel [5288176]	1402		Serum. Stable 2 h at RT. Freeze immediately. Stable 2 weeks at -20°C.	Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org) "		ELISA		30-Sep-25
C1q [9000022]	1402		Serum. Stable 4 h at RT. Store frozen.	Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org)		RID		30-Sep-25

C3 Glomerulopathy Complement Panel [C3G-CP]	792	Complement levels (C3, C4, factor B, factor D, C5, Properdin, factor H, and factor I) Complement activation products (C3c, Ba, Bb, and Soluble C5b-9) Pathway activity assays (CH50, APFA, C3b Deposition Assay and fluid-phase activity assay) Detection of autoantibodies (Factor H autoantibodies, FB autoantibodies, C3Nefs, C4Nefs and C5Nefs)	2 mL serum RED TOP ONLY + 2 mL frozen EDTA plasma. Store frozen.	Molecular Otolaryngology & Renal Research Laboratory, U. of Iowa Carver College of Medicine (www.medicine.uiowa.edu/morl)	DDD & C3GN	serology		31-Jul-26
C3 Nephritic Factor	792		1 ml frozen serum	Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org)	Dense Deposit Disease (DDD, aka Membranoproliferative Glomerulonephritis Type II, MPGNII)		Available as Facteur C3 nephritique (activité) at CHUQ (HEJ)	06-Oct-22

C3 Nephritic Factor [C3nef C3CSA]	792		1 ml frozen serum	Molecular Otolaryngology & Renal Research Laboratory, U. of Iowa Carver College of Medicine (www.medicine.uiowa.edu/morl)	Dense Deposit Disease (DDD, aka Membranoproliferative Glomerulonephritis Type II, MPGNII)	1. Immunofixation electrophoresis (IFE) combines the techniques of electrophoresis with immunofixation to detect C3 degradation products, an indirect measure of dysregulation of C3 convertase. Conversion of C3 to C3c is quantitated (Koch, et al., 1981). 2. C3 Convertase Stabilizing Assay (C3CSA) measures the ability of C3Nefs to stabilize C3 convertase on sheep erythrocytes. 3. C3 Convertase Stabilizing Assay with Properdin (C3CSAP) measures the ability of C3Nefs to stabilize C3 convertase built	Temporarily not available as Facteur C3 nephritique (activité) at CHUQ (HEJ). Preferred over CCCH.	01-Mar-25
C3a [7453041]	792		1 ml frozen EDTA plasma. Whole blood: 2 hours at room temperature Processed plasma: 6 months at -70°C	CBDI Hemostasis & Thrombosis Lab. Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org) . Ph 513-803-3503				06-Oct-22

C5a [7453044]	792		1 ml frozen EDTA plasma. Whole blood: 2 hours at room temperature Processed plasma: 6 months at -70°C	CBDI Hemostasis & Thrombosis Lab. Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org) . Ph 513-803-3503				06-Oct-22
C9orf72 with reflex to SOD1, ATXN2, FUS, & TARDBP [13039]	853	C9orf72 (614260); SOD1 (147450)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Amyotrphic lateral sclerosis		If C9orf72 is only performed, then the price is only $250 USD; Transferred to MUHC	04-Oct-23
CACNB4 Full Gene Sequencing Analysis [MOL227]		CACNB4 (601949)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Episodic ataxia, type 5 (613855)	Sanger sequencing	COMPANY OPERATION SUSPENDED	14-May-20
Calpain 3 DNA Sequencing Test [563]		CAPN3 (114240)	Lavender Top (EDTA)	Athena Diagnostics (www.athenadiagnostics.com)	LGMD2A (253600), Calpainopathy		Suspended	
Calprotectine fécale [30536]			random stool	L'Hôpital Maisonneuve-Rosement				
CAMURATI-ENGELMANN DISEASE (CED) VIA THE TGFB1 GENE [787]		TGFB1 (190180)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Camurati-Engelmann Disease (131300)	Sanger sequencing		10-Jul-23
CAR Panel by Immunoblot and Immunohistochemistry [CARP]	720		Serum. Store at 4°C. Satble for 7 d only. DO NOT FREEZE.	Ocular Immunology Laboratory, OHSU Biomedical Research Building, Room 253 3181 SW Sam Jackson Park Road Portland, OR 97239, USA				17-Sep-24
Carbohydrate Deficient Transferrin for Congenital Disorders of Glycosylation, Serum [CDG]	406		Red Top. Store serum frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Affinity Chromatography-Mass Spectrometry	This is a confirmatory test following the screening test for CDT testing at the MUHC.	16-Dec-20
Carbohydrate, Urine [CHOU]	1572		Random urine. Store frozen. Stable 21 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Replaces "reducing substances". No longer available at HSJ.	TLC		31-Oct-20

Cardio-Facio-Cutaneous Syndrome NGS Panel (5 genes)		BRAF (164757), KRAS (190070), MAP2K1 (176872), MAP2K2 (601263), SOS1 (182530)	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)	Cardiofaciocutaneous syndrome (115150); Cardiofaciocutaneous syndrome 2 (615278); Cardiofaciocutaneous syndrome 3(615279); Cardiofaciocutaneous syndrome 4 (615280); Fibromatosis, gingival (135300)	NextGen Sequencing		2025/03/26
Cathartic Laxatives Profile, Stool [FCLPS]			Stool	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Mg, Pi			20-Oct-20
CAVEOLINOPATHY TESTING VIA THE CAV3 GENE [467]		CAV3 (601253)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Muscular Dystrophy, Limb-Girdle, Type 1C (607801)	Sanger sequencing		10-Jul-23
CBFB::MYH11 Inv(16) or t(16;16)	1395		Lavender Top (EDTA)	Dept of Clinical Laboratory Genetics. Genome Diagnostics & Cancer Cytogenetics. Malignant Hematology Testing. Toronto General Hospital.				06-May-25
Central Hypoventilation And Apnea Panel [PU0401]	775	CHAT, CHRNA1,CHRNB1, CHRND, CHRNE, COLQ, EDN3, GLRA1, MEP2, PHOX2B, PAPSN, RET, SCN4A, SLC6A5, ZEB2	Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		Next-Generation sequencing		26-Sep-18

CEREBRAL CAVERNOUS MALFORMATIONS PANEL [1943]	303	KRIT (604214), CCM2 (607292) , PCCD10 (609118)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Cerebral Cavernous Malformations 1(116860), Cerebral Cavernous Malformations 2 (603284), Cerebral Cavernous Malformations 3 (603285)	Sequencing and CNV Detection via NextGen Sequencing using PG-Select Capture Probes		10-Jul-23
Cerebral Cavernous Malformations via the CCM2 Gene [6971]	303	CCM2 (607929)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Cerebral calvernous malformations-2	NGS		10-Jul-23
Cerebral Cavernous Malformations via the KRIT1/CCM1 Gene [8161]	303	KRIT1 (604241)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Cerebral calvernous malformations-1 (116860)	NGS		10-Jul-23
Cerebral Cavernous Malformations via the PDCD10/CCM3 Gene [8815]	303	PDCD10 (609118)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Cerebral calvernous malformation-3	NGS		10-Jul-23
Chicken Feather (e85) IgE, Serum	1419		Red Top; Gold SST	In-Common Laboratories	Available at CHUQ (poulet/plumes)	CIEP	ON HOLD	07-Oct-19

Cholestasis Panel [GA0501]	400	ABCB11 MYO5B* NOTCH2* NR 21 27 NPHP1 PEX1 PEX10 PEX12 PEX2 PEX26 PEX5 PEX6 SERPINA1 SLC25A13 SLC26A3 SMPD1 SPINT2 TJP2 TMEM216 TRMU L TTC37 UGT1A1 VIPAS39 VPS33B ABCB4 ABCC2 AKR1D1 ATP8B1 BAAT CFTR CREB3L3 CYP7B1 DCDC2 DGUOK EPCAM 80 FAH HSD3B7 JAG1 LCT	Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing		02-Jun-26
Choreoacanthocytosis (200150)		VPS13A (605978)	Lavender Top (EDTA)	North York General		2 mutations	Replace with PG Comprehensive Movemnet Disorder Panel [16004] $1790	
Chronic Granulomatous Disease NextGen Sequencing (NGS) Panel [1971]		CYBA (608508); CYBB (300481); NCF2 (608515); NCF4 (601488)	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26

Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) Test Panel - 5 Nodal and Paranodal Antibodies	336	Neurofascin 140 (NF140), Neurofascin 186 (NF186); Contactin-1 (CNTN1), Contactin-associated protein 1 (CASPR1), and Neurofascin 155 (NF155)	Serum ONLY. Store at -20°C.	BC Neuroimmunology (bcneuro.ca)		CBA fixed	Replaces contactin and neurofascin tesing at Washington U.	02-Jun-26
Chronic Pancreatitis NGS Panel	402	CASR, CFTR, CTRC, PRSS1, SPINK1	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
Chyluia Screen, Random Urine [CSU]	1467		First morning random urine. Store frozen. Stable 10 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		elecrophoresis		13-Sep-21
CLCN1 Full Gene sequencing Analysis [MOL355]; Paramyotonia Congenita (168300)	607	CLCN1 (118425)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Paramyotonia Congenita (168300)	Sanger sequencing	COMPANY OPERATION SUSPENDED	14-May-20
clonoSEQ	1084		Lavender Top (EDTA)	Adaptive Biotechnologies (https://ous.clonoseq.com)	Minimal Residual Disease	Next-Generation sequencing		14-Sep-24
Coccidiodies Antibody by Immunodiffusion [320]	493		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. SABILITY Refrigerated: 14 days Frozen: 6 months	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22
Coccidiodies Antibody IgG, IgM EIA [325]	493		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. CSF: Sterile transport tube STABILITY Refrigerated: 14 days Frozen: 14 days	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22

Coccidioides Antibody, Serum [SCOC]	493		Gold SST	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	coccidioidomycosis	Complement fixation and immunodiffusion	Refer to Microbiology.	29-Oct-20
Coccidioides Quantitative EIA [315]	493		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. Plasma: Collect plasma specimens in an EDTA, heparin or sodium citrate tube. Centrifuge for 15 minutes and pipette plasma into a plastic screw cap vial. Urine/CSF/BAL/Other Body Fluids: Submit urine, CSF, BAL, and all other body fluids in a sterile screw cap container.STABILITY Room Temperature: 14 days Refrigerated: 14 days Frozen: Indefinitely	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22
COCKAYNE SYNDROME VIA THE ERCC6 GENE [1008]		ERCC6 (609413)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Cockayne Syndrome, Type B (133540)	NGS		Ju;y 10 2023
Collagen Type II Antibodies [FFTYC]	1399		Red Top; Gold SST. Stable for 7 d at 4°C or longer at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Enzyme Linked Immunosorbent Assay (ELISA)		15-May-19

Collagen VII IgG Antibody Level	1399		Red Top or Gold SST. Stability Ambient: 7 days Refrigerated: 14 days Frozen: Indefinitely	Immunodermatology Laboratory Department of Dermatology 30 North 1900 East, 4A330 SOM Salt Lake City, Utah 84132 Email: immunoderm@hsc.utah.edu		Enzyme Linked Immunosorbent Assay (ELISA)		06-Jul-20
Colon Cancer NGS Panel	231	APC, AXIN2, BMPR1A, BUB1B, CDH1, CDKN2A, CHEK2, EPCAM, EXO1, FLCN, GALNT12, MLH1, MSH2, MSH6, MUTYH, PMS1, PMS2, PTEN, SMAD4, STK11, TP53	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
Colorectal cancer (Li-Fraumeni syndrome)	231	TP53 (191170)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Colorectal cancer (114500); Li-Fraumeni syndrome (151623)	1. Sanger sequencing 2. gene dosage		
ColoVantage (Methylated Septin 9) [16983]	1395	SEPT9	Plasma (EDTA); handle at 4°C; freeze plasma in plastic container. Minimum 10 mL.	Quest Diagnostics Chantilly 14225 Newbrook Dr. Chantilly, VA 20153-0841			SUSPENDED	11-Apr-18
Common Variable Immunodeficiency Panel (Inviate) [08112]	1042	CD27, CR2, CTLA4, ICOS, IL21, IL21R, LRBA, NFKB2, PIK3CD, PIK3R1, PLCG2, PRKCD, RAC2, STAT3, TNFRSF13B, TNFRSF13C, TNFSF12	Lavender Top (EDTA)	Invitae (www.invitae.com)		Next-Generation sequencing	SUSPENDED	10-Jul-23

Complement C1q, Quantitative [016824]	1402		Serum. Store at -20°C. Stable 14 d.	LabCorp/Dynacare (https://www.labcorp.com/)			SUSPENDED	07-Oct-24
Complement C1q,, Serum [C1Q]	1402		Serum. Store and send frozen Stable 28 d. If the specimen thaws, it is unsuitable for analysis.	Mayo Clinical Laboratories, now available at CHUQ		Nepholometry	Available at CHUQ (H lenfant jesus). Tempoarily Unavailaable	30-Sep-25
Complement System Disorder Panel Plus Anlaysis [IM0701]	803	ADIPOQ Complement system AD/AR 2 8 ADIPOR1* Complement system AD/AR 4 ADIPOR2 Complement system AD/AR ARMC4* Ciliary dyskinesia AR 13 15 C1QA C1q deficiency AR 2 7 C1QB C1q deficiency AR 4 7 C1QBP Primary immunodeficiency AD/AR 6 C1QC C1q deficiency AR 4 7 C1R Immunodeficiency AD/AR 14 16 C1S Complement component C1s deficiency AR 4 8 C2* Complement component 2 deficiency AR 4 6 C3 Hemolytic uremic syndrome, atypical, Complement component 3 deficiency AD/AR 5 82 C3AR1 Complement system AD/AR 1 3 C4A* Blood group, Chido/Rodgers system BG 1 5 C4B* Complement component 4B deficiency AR 8 C4BPA Complement system AD/AR 2 C4BPB Complement system AD/AR C5 Eculizumab, poor response to, Complement component 5 deficiency AD/AR 5 17 C5AR1 Complement system AD/AR C5AR2 Complement system AD/AR 2 C6 Complement component 6 deficiency AR 7 11 C7 Complement component 7 deficiency AR 14 29 C8A Complement component 8 deficiency AR 2 5 C8B Complement component 8 deficiency AR 7 7 C8G Immunodeficiency AD/AR C9 Complement component 9 deficiency AR 7 7 CCDC39 Ciliary dyskinesia AR 16 38 CCDC40 Ciliary dyskinesia AR 19 32 CCDC65 Ciliary dyskinesia AR 1 CCDC103 Ciliary dyskinesia AR 3 4 CCDC114 Ciliary dyskinesia AR 6 7 CCNO Ciliary dyskinesia AR 9 9 CD46* Hemolytic uremic syndrome, atypical AD/AR 4 64 CD55 Blood group, Cromer system BG 7 6 CD59 CD59 deficiency AR 3 6 CD93 Complement system AD/AR	Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/				02-Feb-18
Comprehensive Ataxia Panel REFLEX [6111]	583		Lavender Top (EDTA)	University of Chicago Genetic Services Laboratories (dnatesting.uchicago.edu)		NGS	Comprehenisve Ataxia Panel CONCURRENT [4102] is not accepted as per Sante Qc.	15-Oct-26

Comprehensive Ataxia Repeat Expansion Panel (SCA 1, 2, 3, 6, 7, 8, 10, 11, 12, 17, 36, DRPLA & FRDA) [MOL391]	584		Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED	11-Nov-24
Comprehensive Cardiovascular NGS Panel	286		Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)				2025/03/26
Comprehensive Cellular Energetics Defects (NextGen Sequencing Panel and Copy Number Analysis + mtDNA) [NGS301]	636	AAAS (605378), AAGAB (613082), AAK1 (616602), AARS2 (612035), ABCB7 (300135), ABCB8 (605464), ABCD1 (300371), ABCF2 (612510), ABHD5 (604780), ACAA1 (604054), ACACA (200350), ACACB (601557), ACAD8 (604773), ACAD9 (611103), ACADL (609576), ACADM (607008), ACADS (606885), ACADSB (600301), ACADVL (609575), ACAT1 (607809), ACAT2 (100678), ACLY (108728), ACO1 (100880), ACO2 (100850), ACOX1 (609751), ACOX2 (601641), ACP6 (611471), ACSBG1 (614362), ACSF3 (614245), ACSL1 (152425), ACSL3 (602371), ACSL4 (300157), ACSM1 (614357), ACSM2B (614359), ACSM3 (145505), ADCK3 (606980), ADHFE1 (611083), AFG3L2 (604581), AGK (610345), AGL (610860), AIFM1 (300169), AK2 (103020), AK3 (609290), ALAD (125270), ALAS2 (301300), ALDH3A2 (609523), ALDOA (103850), ALDOB (612724), ALDOC (103870), ANO10 (613728), APOPT1 (616003), APTX (606350), ARMS2 (611313), ARX (300382), ATAD3B (612317), ATP5A1 (164360), ATP5B (102910), ATP5E (606153), ATP7B (606882), ATPAF2 (608918), AUH (600529), BAAT (602938), BAX (600040), BBOX1 (603312)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		Next-Generation sequencing	COMPANY OPERATION SUSPENDED	14-May-20

Comprehensive Dystonia (NGS Panel and Copy Number + mtDNA) [NGS358]	1096	AARS AARS2 AASS ABCA7 ABCD1 ABCD4 ABHD12 ACOX1 ACP2 ACP5 ACTB ACVR1 ADAMTS13 ADAR ADCY5 ADD3 ADH1C ADRA2B AFG3L2 ALDH6A1 ALS2 ANO3 AP1S2 AP3B2 AP3D1 AP4B1 APTX ARHGAP31 ARSA ARV1 ARX ATCAY ATM ATP13A2 ATP1A2 ATP1A3 ATP2B3 ATP7B ATR AUH B4GALNT1 BCAP31 BCL11B BCS1L BICD2 BRAT1 BSCL2 C11orf73 C19orf12 CA2 CACNA1A CACNA1B CACNA1D CARS2 CHMP2B CIT CKAP2L CLPB COASY COL4A1 COL6A3 COQ9 COX10 COX15 CP CRLF1 CTC1 CYB5R3 CYP27A1 DAG1 DCAF17 DDC DDX3X DLAT DLD DMXL2 DNAJC12 DNAJC6 DOCK6 DPYS DRD5 DYNC1H1 EARS2 ECHS1 ECM1 ELAC2 ELP2 EMC1 ERCC6 ERCC8 ERLIN1 FA2H FAR1 FASTKD2 FBXL4 FBXO7 FGFR1 FOXG1 FOXRED1 FRRS1L FTL GAMT GBA GCDH GCH1 GJA1 GJC2 GLB1 GLUD2 GLYCTK GM2A GNA11 GNAL GNAO1 GNAS GPR88 GRIK2 GTF2E2 GTF2H5 HACE1 HIBCH HNRNPH2 HPCA HPRT1 HTRA2 HTT IFIH1 IFNG ISG15 JAM3 JPH3 KCNJ10 KCNMA1 KCNQ2 KCTD17 KMT2B KRIT1 L2HGDH LIPT2 MAPT MARS2 MAT1A MCCC2 MCOLN1 MDH2 MECP2 MECR MFF MGP MICU1 MMADHC MORC2 MPV17 MRE11A MRPS34 MTO1 NADK2 NALCN NDUFA10 NDUFA12 NDUFA2 NDUFA9 NDUFAF2 NDUFAF6 NDUFS3 NDUFS4 NDUFS7 NDUFS8 NHP2 NKX2-1 NME1 NPC1 NPC2 NUP62 OBFC1 OCLN PAH PANK2 PARK2 PCCA PCCB PDE10A PDE8B PDGFB PDGFRB PDHA1 PDHX PET100 PINK1 PLA2G6 PLEKHG2 PLP1 PNKD PNKP PNP PNPLA8 PNPT1 POLR1C POLR3A PPP1R15B PRKCG PRKRA PRRT2 PSEN1 PSMB8 PTEN PTS QDPR RAB18 RBBP8 RLIM RNASEH1 RNASEH2A RNASEH2B RNASEH2C RNASET2 RNF125 RNF216 SAMHD1 SCP2 SDHA SDHAF1 SDHD SERAC1 SETX SFXN4 SGCE SLC19A3 SLC20A2 SLC25A15 SLC25A26 SLC2A1 SLC30A10 SLC30A9 SLC39A14 SLC39A4 SLC46A1 SLC6A17	Lavender Top (2 x 4 mL)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED	14-May-20

Comprehensive Epilepsy (NGS Panel + Copy Number Analyis + mtDNA) [NGS385]	1031	ABAT (137150), ABCC8 (600509), ACADSB (600301), ACSF3 (614245), ADSL (608222), ALDH5A1 (610045), ALDH7A1 (107323), ALG11 (613666), AMT (238310), ARHGEF15 (608504), ARHGEF9 (300429), ARX (300382), ASAH1 (613468), ATIC (601731), ATP6AP2 (300556), AUTS2 (607270), BOLA3 (613183), C10ORF2 (606075), CACNA1A (601011), CACNA1G (604065), CACNA1H (607904), CACNA2D2 (607082), CACNB4 (601949), CACNG3 (606403), CADPS2 (609978), CDKL5 (300203), CERS1 (606919), CHD2 (602119), CHRNA2 (118502), CHRNA4 (118504), CHRNB2 (118507), CLCN2 (600570), CLCN4 (302910), CLN3 (607042), CLN5 (608102), CLN6 (606725), CLN8 (607837), CNTNAP2 (604569), COG7 (606978), COG8 (606979), COL6A2 (120240), COQ2 (609825), COQ9 (612837), CPA6 (609562), CSTB (601145), CTSD (116840), D2HGDH (609186), DEPDC5 (614191), DNAJC5 (611203), DNM1 (602377), DOCK7 (615730), DPAGT1 (191350), DYRK1A (600855), EEF1A2 (602959), EFHC1 (608815), EPM2A (607566), ETHE1 (608451), FARS2	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED. At HSJ: Panel virtuel ciblé de gènes associés à l'épilepsie analysé à partir de l'exome (inclus dans le panel associé aux troubles développementaux (55360)) IMPORTANT : cette analyse doit être demandée en trioAlternative: Fulgent Epilepsy NGS Panel	02-Jun-26

Comprehensive Epilepsy NGS Panel	1031	ABA1, ABCB1, ABCC8, ACY1, ADAR, ADCK3, ADGRG1, ADGRV1, ADSL, AGA, AHI1, AKT3, ALDH4A1, ALDH5A1, ALDH7A1, ALG1, ALG12, ALG13, ALG2, ALG3, ALG6, ALG8, ALG9, AMACR, AMT, ANK3, APTX, ARFGEF2, ARG1, ARHGEF15, ARHGEF9, ARL13B, ARSA, ARSB, ARX, ASNS, ASPA, ASPM, ATIC, ATP13A2, ATP1A2, ATP2A2, ATP6AP2, ATP6V0A2, ATPAF2, ATR, ATRX, AUH, B4GALT1, BCKDK, BCS1L, BOLA3, BRAF, BRAT1, BRD2, BTD, BUB1B, C10orf2, C12orf57, C12orf65, CACNA1A, CACNA1H, CACNA2D2, CACNB4, CASK, CASR, CBL, CC2D2A, CCDC88C, CCL2, CDK5RAP2, CDKL5, CDON, CELSR1, CENPJ, CEP152, CEP290, CHD2, CHRNA2, CHRNA4, CHRNA7, CHRNB2, CLCN2, CLCN4, CLCNKA, CLCNKB, CLN3, CLN5, CLN6, CLN8, CNTN2, CNTNAP2, COG1, COG7, COG8	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing	Panel virtuel ciblé de gènes associés à l'épilepsie analysé à partir de l'exome (inclus dans le panel associé aux troubles développementaux (55360)) IMPORTANT : cette analyse doit être demandée en trio. At HSJ	2026/06/02
Comprehensive Immune and Cytopenia Panel [IM0902]	1076		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing		22-Aug-23

Comprehensive In-House Testing Panel [OLD NAME: Autoimmune Encephalitis/ Paraneoplastic Full Panel Evaluation, 20 antigens (AEPP_20 Ag)]	1417	NMDAR, GABAB, DPPX, LGI1, CASPR2, AMPAR, CV2,PNMA2, Yo, Hu, Recoverin, SOX1,.Zic4, GAD65, GluR1, GluR5,GlyR, KLH11, GFAP, and IgLON5	Serum/CSF	BC Neuroimmunology (bcneuro.ca)		Screening with Euroimmun mosaic/paraneoplastic immunoblot/in-house rat-brain immunohistochemistry/ immunofluorescence reflex to in-house CBAs		06-Jun-26
Comprehensive Metabolism NGS Panel	1891	ABCC8, ABCD1, ABCD4, ACAA1, ACAD9, ACADL, ACADM, ACADS, ACADVL, ACAT1, ACOX1, ACSF3, ACY1, ADAMTSL2, ADAR, ADSL, AGA, AGK, AGL, AGPAT2, AKT2, ALAD, ALAS2, ALDH5A1, ALDH6A1, ALDH7A1, ALDOA, ALG1, ALG11, ALG12, ALG13, ALG2, ALG3, ALG6, ALG8, ALG9, AMACR, AMT, ANO10, ANTXR2, APTX, ARG1, ARSA, ARSB, ASAH1, ASL, ASPA, ASS1, ATP13A2, ATP6V0A2, AUH, B3GLCT, B4GALT1, BCKDHA, BCKDHB, BSCL2, BTD, C12orf65, CA2, CACNA1S, CAV1, CAV3, CAVIN1, CBS, CD320, CKMT1A, CKMT1B, CKMT2, CLCN1, CLDN16, CLDN19, CLN3, CLN5, CLN6, CLN8, CNNM1, CNNM2, CNNM4, COG1, COG4, COG5, COG6, COG7, COG8, COL11A2, COL2A1, COQ2, COQ6, COQ8A, COQ9, CPOX, CPS1, CPT1A, CPT1B, CPT2, CTNS, CTSA, CTSC, CTSD, CTSK, DBT, DDOST, DGUOK, DHCR7, DHDDS, DLD, DOLK, DPAGT1, DPM1, DPM2, DPM3, DPYD, DYM, ECHS1, EGF, ENO3, EPM2A, ETFA, ETFB, ETFDH, FAH, FBP1, FBXL4, FECH, FH, FLNA, FLNB, FOLR1, FUCA1, FXYD2, G6PC, GAA, GALC	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26

Comprehensive Muscular Dystrophy/Myopathy (NextGen Sequencing Panel and Copy Number Analysis + mtDNA) [NGS330]	636	AAAS (605378), AARS (601065), AARS2 (612035), ABCC8 (600509), ABHD5 (604780), ACACA (200350), ACAD9 (611103), ACADS (606885), ACADVL (609575), ACTA1 (102610), ACY1 (104620), ADCK3 (606980), ADSSL1 (612498), AFG3L2 (604581), AGK (610345), AGL (610860), AGRN (103320), AIFM1 (300169), AIMP1 (603605), AIP (605555), ALAD (125270), ALDH18A1 (138250), ALDOA (103850), ALG2 (607905), ALS2 (606352), AMMECR1 (300195), AMPD1 (102770), ANO5 (608662), AP3B2 (602166), AP3D1 (607246), KIAA0415 (613653), APOA1 (107680), APOPT1 (616003), APTX (606350), AR (313700), ARSA (607574), ASAH1 (613468), ASXL2 (612991), ATL1 (606439), ATP1A3 (182350), ATP2A1 (108730), ATP7A (300011), B2M (109700), B3GALNT2 (610194), B3GNT1 (605517), B4GALT1 (137060), BAG3 (603883), BCL11B (606558), BCS1L (603647), BICD2 (609797), BIN1 (601248), BSCL2 (606158), C10ORF2 (606075), C12orf65 (613541), C19orf12 (614297), C9orf72 (614260), CACNA1A (601011), CACNA1S (114208), CAPN3 (114240), CASK (300172), CASQ1 (114250), CAV3 (601253), CCDC78 (614666), CCDC88A (609736), CFL2 (601443), CHAT (118490), CHCHD10 (615903), CHD4 (603277), CHKB (612395), CHMP2B (609512), CHRNA1 (100690), CHRNB1 (100710), CHRND (100720), CHRNE (100725), CHRNG (100730), CIT (605629), CLCN1 (118425), CLCNKB (602023), CNBP (116955), CNTN1 (600016), COL4A1 (120130), COL6A1 (120220), COL6A2 (120240), COL6A3 (120250), COLQ (603033), COQ2 (609825), COQ9 (612837), COX10 (602125), C12ORF62 (614478), COX15 (603646), FAM36A (614698), COX6A1 (602072), COX6B1 (124089), COX8A (123870), CPT1C (608846), CPT2 (600650), CRYAB (123590), CTNS (606272), CYP7B1 (603711), D2HGDH (609186), DARS2 (610956), DCPS (610534), DCTN1 (601143), DDHD1 (614603), DDHD2 (615003), DES	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Includes Limb Girdle Muscular Dystrophy	Next-Generation sequencing	COMPANY OPERATION SUSPENDED. Transfered to HSJ.	08-Nov-24

Comprehensive Neuropathies (NextGen Sequencing Panel and Copy Number Analysis; 869 genes + mtDNA) [NGS445]	643 (445)	43717 AAAS AARS AASS ABAT ABCA1 ABCB7 ABCC8 ABCD1 ABCD4 ABHD12 ACO2 ACOX1 ACP5 ACTA1 ACTB ACVR1 ACVRL1 ACY1 ADAMTS2 ADCK3 ADCY5 ADCY6 ADSL ADSSL1 AFG3L2 AGXT AIFM1 AIMP1 AKT1 ALAD ALDH18A1 ALDH3A2 ALDH5A1 ALDH6A1 ALG2 ALOX5AP ALS2 AMACR AMER1 AMN AMPD1 AMPD2 ANG ANKH ANKLE2 ANO5 AP1S1 AP1S2 AP3D1 AP4B1 AP4E1 AP4M1 AP4S1 AP5Z1 APOA1BP APOB APTX AR ARCN1 ARHGEF10 ARL13B ARL6IP1 ARNT2 ARSA ARX ASAH1 ASCC1 ASNS ASPA ASXL1 ATAD3A ATL1 ATL3 ATP13A2 ATP1A3 ATP2A1 ATP2B3 ATP6AP2 ATP7A ATP7B ATRX AUH B3GALT6 B3GALTL B4GALNT1 BAG3 BCAP31 BCOR BCS1L BICD2 BIN1 BMP2 BOLA3 BRAT1 BRPF1 BSCL2 BTNL2 BUB1B C10ORF2 C11orf73 C12orf65 C19orf12 CACNA1A CACNA1D CACNA1G CAPN1 CAPN3 CARS2 CASK CAV1 CAV3 CCDC88C CCND1 CCT5 CD59 CDK5 CECR1 CEP120 CEP55 CFH CFHR1 CFHR3 CFL2 CHCHD10 CHMP1A CHMP2B CHRNA1 CHRND CHRNG CISD2 CIT CKAP2L CLCF1 CLCN1 CLCN7 CLP1 CLPB CLPP CNBP CNTN2 CNTNAP1 COASY COG2 COL18A1 COL4A2 COL6A1 COL6A2 COL6A3 COMP COQ2 COQ4 COQ7 COQ9 COX10 COX15 COX6A1 COX7B CPOX CPT1C CREBBP CRYAB CSF1R CSPP1 CTC1 CTDP1 CTNNB1 CTSD CTSF CUBN CWF19L1 CYB5R3 CYP27A1 CYP2U1 CYP7B1 D2HGDH DARS DARS2 DCAF8 DCTN1 DDC DDHD1 DDHD2 DDOST DDR2 DDX3X DES DGUOK DHCR24 DHFR DHH DHTKD1 DKC1 DLAT DMXL2 DNA2 DNAJB2 DNAJC12 DNAJC3 DNM1L DNM2 DNMT1 DOCK6 DPAGT1 DPH1 DPM1 DSE DST DYNC1H1 EARS2 EBF3 ECE1 EGR2 EIF2B1 EIF2B2 EIF2B3 EIF2B4 EIF2B5 ELOVL4 ELOVL5 ELP2 EMC1 EML1 ENTPD1 EPG5 ERBB3 ERBB4 ERCC1 ERCC2 ERCC3 ERCC6 ERCC8 ERLIN1 ERLIN2 ESCO2 EVC EVC2 EXOSC3 EXOSC8 EXT1 FA2H FADD FAH	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED. Use Chacot-Marie-Tooth Panel [NE1301] at Blueprint Genetics.	14-May-20

Comprehensive Ophthalmoplegia Syndromes (NextGen Sequencing Panel and Copy Number Analysis; 55 Genes + mtDNA) [NGS352]	1648	ACADS (606885), ACTA1 (102610), AFG3L2 (604581), AGRN (103320), APTX (606350), ATXN1 (601556), ATXN2 (601517), ATXN3 (607047), ATXN7 (607640), BIN1 (601248), C10ORF2 (606075), C12orf65 (613541), CHAT (118490), CHRNA1 (100690), CHRNB1 (100710), CHRND (100720), CHRNE (100725), CLPP (601119), COLQ (603033), DNM2 (602378), DOK7 (610285), EARS2 (612799), FOXE3 (601094), FOXRED1 (613622), GBA (606463), GRM1 (614831), HARS2 (600783), HCCS (300056), HSD17B4 (601860), KIF21A (608283), LARS2 (604544), C20ORF72 (615076), MPV17 (137960), MTM1 (300415), MTMR14 (611089), MUSK (601296), MYH2 (160740), OPA1 (605290), OPA3 (606580), PABPN1 (602279), POLG (174763), POLG2 (604983), RAPSN (601592), RRM2B (604712), RYR1 (180901), SCO2 (604272), SDHAF1	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED	14-May-20
Comprehensive Short Stature Syndrome Panel [MA2101]	560		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		Sanger sequencing		25-Sep-25

Cone-Rod Dystrophy Panel [10403]	1444	CACNA1F (300110)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Aland Island Eye Disease (300600); Cone-Rod Dystrophy X-Linked 3 (300476); Congenital Stationary Night Blindness, Type 2A (300071)	NextGen Sequencing	See Blueprint Genetics	10-Jul-23
Congenital Adrenal Hyperplasia NGS Panel	1326	ARMC5, CYP11B1, CYP11B2, CYP17A1, CYP21A2, HSD3B2, POR, PRKAR1A, STAR	Lavender Top (EDTA) 2 x 4 mL	Fulgent Genetics (fulgentdiagnostics.com)				2025/03/26
Congenital Adrenal Hyperplasia Panel [EN0801]	1326	ARMC5 CYP11A1 CYP11B1* CYP11B2* CYP17A1 CYP21A2* HSBD3B2 PDE11A PDE8B POR PRKAR1A STAR	Lavender Top (EDTA) 2 x 4 mL	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing		28-Feb-20

Congenital Hyperinsulinism Panel [10265]	541	ABCC8 (600509) GCK (138079) GLUD1 (138130) HADH (601609) HNF1A (142410) HNF4A (600281) KCNJ11 (600937) SLC16A1 (600682) UCP2 (601693)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Hyperinsulinemic Hypoglycemia, Familial 3 602485 Hyperinsulinemic Hypoglycemia, Familial 6 606762 Hyperinsulinemic Hypoglycemia, Familial, 1 256450 Hyperinsulinemic Hypoglycemia, Familial, 2 601820 Hyperinsulinemic Hypoglycemia, Familial, 4 609975 Hyperinsulinemic Hypoglycemia, Familial, 7 610021 Maturity-Onset Diabetes Of The Young, Type 1 125850 Maturity-Onset Diabetes Of The Young, Type 3 600496 Related Tests	Next-Generation sequencing		2023/07/10

Congenital Myasthenic Syndrome NGS Panel	606	AGRN, ALG14, ALG2, CHAT, CHRNA1, CHRNB1, CHRND, CHRNE, CHRNG, COL13A1, COLQ, DOK7, DPAGT1, GFPT1, GMPPB, LAMB2, LRP4, MUSK, MYO9A, PLEC, PREPL, RAPSN, SCN4A, SLC25A1, SLC5A7, SNAP25, STIM1, SYT2 (28 genes)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Myasthenic syndrome, congenital, with pre- and postsynaptic defect s 615120); Myasthenic syndrome, congenital, associated with episodic apnea (254210); Multiple pterygium syndrome, lethal type (253290); Myasthenic syndrome, fast-channel congenital (608930); Myasthenic syndrome, slow-channel congenital (601462); Myasthenic syndrome, congenital, associated with acetylcholine receptor deficiency (608931); Myasthenic syndrome, slow-channel congenital (601462); Multiple pterygium syndrome	Next-Generation sequencing	In HSJ 55334	2025/03/26

Congenital Neutropenia Panel [IM0501]	836	ACTB* CLPB CSF2RA#* CSF3R CTSC EFL1* ELANE G6PC3 GATA2 GFI1 GINS1 HAX1 IFNGR2 JAGN1 LAMTOR2 LYST MKL1 PGM3 RAC2 SBDS* SLC37A4 SMARCD2 SRP54 SRP72* VPS13B VPS45# WAS WDR1	Lavender Top (2 x 4 mL)	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing	At HSJ: Panel virtuel ciblé de gènes associés à la neutropénie congénitale analysé à partir de l'exome IMPORTANT : cette analyse est réservée aux cas pédiatriques (moins de 18 ans)	28-Feb-20

Connective Tissue Disease- Lupus Profile, Serum [CTDAB S]	1863	Anti Mi-2 beta Ab (Anti Chromodomain helicase DNA binding protein 4 antibody); Anti Ku Ab; Anti nRNP/Sm Ab (Anti Nuclear ribonucleoprotein (U1-RNP) antibody); Anti Sm Ab (Anti Smith antibody); Anti SSA (Ro60) Ab; Anti Ro52 (TRIM21) Ab; Anti SSB (La) Ab; Anti Scl-70 Ab (Anti Topoisomerase I antibody); Anti PM/Scl-100 Ab (Anti PM/Scl Complex (100 kDa) antibody); Anti Jo-1 Ab (Anti Histidyl-tRNA synthetase antibody); Anti Centromere protein B Ab; Anti PCNA Ab (Anti Proliferating cell nuclear antigen antibody); Anti dsDNA Ab (Anti Double stranded DNA antibody); Anti Nucleosome (chromatin) Ab; Anti Histone Ab; Anti Ribosomal P proteins Ab; Anti AMA-M2 Ab (Anti Mitochondrial M2	Gold SST	In-Common Laboratories		Immunoblot	Replaces Mitogen panel. Mitogen does not accept CSF.	30-Mar-25
Copeptin, Serum/Plasma [COPEPTIN]	1467		Prefered Plasma (Li heparin). Serum & EDTA plasma OK. Store and send frozen (90 days).	In-Common Laboratories	Replaces vasopressin/Anti-Diuretic Hormone. Suggest ordering osmolality at same time.	Fluorescent immunoassay		05-Sep-22

Copper (Liver Biopsy)		Normal: 1.16-0.55 µmol/g	Tissue Mimimum: 1.0 mg. Collection tube without anticoagulant (plastic) NO additions. Store and ship at 4°C.	INSPQ (Quebec City)				23-Jun-20
Cornelia de Lange Syndrome		NIPBL (608667); SMC1A (300040); SMC3 (606062); HDAC8 (300269); RAD21 (606462)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Cornelia de Lange syndrome 1 (122470); Cornelia de Lange syndrome 2 (300590); Cornelia de Lange syndrome 3 (610759); Cornelia de Lange syndrome 4 (614701); Cornelia de Lange syndrome 5 (300882)	Next-Generation sequencing		2025/03/26
Corticotropin Releasing Factor (CRF, CRH)			3 ml EDTA plasma should be collected and separated as soon as possible. Plasma should be frozen immediately after separation	Inter Science Institute - 944 West Hyde Park Blvd, Inglewood, CA 90302		RIA		
Cortisol, free [CORTF]			Red Top or Lavender Top	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				31-Oct-20
Coxiella burnetii (Q fever), Molecular Detection, PCR, Blood [CBBRP]			Whole blood EDTA; Stable 7 days only at at 4°C or -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Fièvre Q (Coxiella burnettii IgG et IgM) at CHUS Fleurimont			31-Oct-20
Craniosynostosis Non-Syndromic (select exons of FGFR3 gene)		FGFR3 (134934)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Craniosynostosis	Sanger sequencing; FGFR3 (p.Pro250Arg)		

Creatine Disorders Panel, Urine [CRDPU]		GATM (602360); SLC6A8 (300036)	Random urine	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	arginine:glycine amidinotransferase deficiency (602360/612718), guanidinoacetate methyltransferase deficiency (601240/612736), creatine transporter (SLC6A8) defect (300036/300352)		To be verified.	
Crouzon Syndrome (select exons of FGFR2 and FGFR3 gene)		FGFR2 (176943); FGFR3 (134934)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Craniosynostosis: Crouzon syndrome (123500)	Sanger sequencing: FGFR2 (exon 7 and 8); FGFR3 (p.Pro250Arg)	To be verified.	

Cryoglobulin and Cryofibrinogen Panel, Serum and Plasma [CRGSP]			**Cryofibrinogen** **Collection** Container/Tube: Lavender top (EDTA) Submission Container/Tube: Plastic vial Specimen Volume: 1 mL Collection Instructions: 1. Tube must remain at 37 degrees C. 2. Centrifuge at 37 degrees C. (Do not use a refrigerated centrifuge. If absolutely necessary, ambient temperature is acceptable.) It is very important that the specimen remain at 37 degrees C until after separation of plasma from red cells. 3. Place plasma into an appropriately labeled plastic vial. **Cryoglobulin** **Collection** Container/Tube: Red top Submission Container/Tube: Plastic vial Specimen Volume: 5 mL Collection Instructions: 1. Tube must remain at 37 degrees C. 2. Allow blood to clot at 37 degrees C. 3. Centrifuge at 37 degrees C. (Do not use a refrigerated	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Evaluating patients with vasculitis, glomerulonephritis, and lymphoproliferative diseases Evaluating patients with macroglobulinemia or myeloma in whom symptoms occur with cold exposure	immunofixation	To be verified.	

Cryopyrin-Associated Periodic Syndromes via the NLRP3 Gene [1638]		NLRP3 (606416)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Chronic Infantile Neurological, Cutaneous And Articular Syndrome (607115); Familial Amyloid Nephropathy With Urticaria And Deafness (191900); Familial Cold Urticaria	Sanger sequencing		10-Jul-23
Cryptococcal Antigen, latex agglutination [319]	2020		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. CSF: Collect in sterile container. Centrifuge to remove white cells and particulate matter. STABILITY efrigerated/Frozen: 2 months	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22
CSF Protein Immunoassay Panel (CJD Protein Test Panel)	1383		2.0 mL CSF; Freeze sample as soon as possible after collection. Ship frozen on dry ice.	National Microbiology Laboratory, Health Canada (Winnipeg)	Creutzfeldt-Jakob Disease (CJD)	14-3-3 protein testing of cerebrospinal fluid (CSF) (ELISA); PrPd (QuIC); Tau protein (ELISA)	Should be registered with surveillance.	24-May-17
CSTB dodecmer repeat expansion [7084]		CSTB (601145)	Lavender Top (EDTA)	Ambry Genetics	Epilepsy, progressive myoclonic 1A (Unverricht and Lundborg) (254800)		To be verified.	
Currarino syndrome		MNX1 (142994)	Lavender top (EDTA)	Diagenos (www.diagenos.com)	Currarino syndrome (176450)	Sanger sequencing		

Currarino syndrome		MNX1 (142994)	Lavender top (EDTA)	Centogene AG (www.centogene.com)	Currarino syndrome (176450)	Sanger sequencing		
CXCL9	1158		EDTA plasma - 2 aliquots. Store in polypropylene tubes.. Send frozen. Stable 6 month	Cincinnati Children's Hospital Medical Center, Diagnostics Immunolgy Laboratory, 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org)	hemophagocytic lymphohistiocytosis (HLH)			18-Apr-23
Cyclic AMP, Urinary Excretion [GRP]			Serum (Red Top) AND random urine resquired. Store frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				19-May-17
CYP27B1 Single Gene Test	897	CYP27B1 (609506)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Vitamine D dependant rickets type1 (264700)	NextGen Sequencing		2025/03/26
Cystatin C [CYSTC]	78		Serum. Store and send frozen	In-Common Laboratories		Immunonephelometry		06-Sep-18
Cystic Fibrosis: CFTR Deletion Duplication Analysis	763	CFTR (602421)	Lavender Top (EDTA)	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children (www.sickkids.ca/paediatriclabmedicinems/lab-divisions/genome-diagnostics/genome-diagnostics.html#genome)	Cystic Fibrosis (219700)	MLPA	Available at MUHC	
Cystinuria NGS Panel	807	SLC3A1 (104614); SLC7A9 (604144); PREPL (609577)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Cystinuria (220100)	NextGen Sequencing		2025/03/26
Cytochrome P450 2D6 (CYP2D6) Comprehensive Cascade [2D6CV]	77	CYP2D6 (124030)	Lavender Top (EDTA). Stable for 30 days at 4°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				31-Oct-20
Cytokine Panel [CYPAN]	1523		Lavender Top (EDTA). Stable for 30 days at 4°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	includes soluble interleukin-2 receptor	bead-based multiplex immunoassay	See OncoHelix or Mitogen	18-Apr-23
Cytokine, Chemokine, Growth Factor 95-plex	1523		EDTA plasma, serum, CSF. Store frozen.	Mitogen Advanced Diagnostics		ALBIA		08-Jun-26

Dabigratan			Serum (Light blue top)	Quest Diagnostics			Not available.	
Deletion 1p			Green Top; RT only	Cytogenetics Laboratory, Hospital for Sick Children	Chromosome1p36 deletion syndrome (607872)	microarray	To be verified.	
Dementia, Plus APOE Panel [15779]	598	19 genes	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		NGS	Replaces Dementia Panel [10309]	20-Jun-24
Developmental Disorders Panel [MS020x]	718		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NGS	Only temporarily allowed. To be replaced by polymalformation Panel in Qc	08-Oct-24
Dexamethasone [FDXM]	1467		Red Top preferred. Serum stable for 28 d at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS		06-Oct-22
Diabetes Type 1 Autoantibody Panel, Serum [DIABT1ABP S]	858		Gold top tube. Stable 7 d at RT or 4°C. Stable 28 d a -20°C.	In-Common Laboratories	GAD65, IA-2 Ab, ZnT8 Ab, insulin Ab	ELISA	GAD65 available in QC; ordering IA-2+insulin Ab+ZnT8 Ab only $230	02-Oct-26
Diabetes Insipidus Panel [KI1801]	1457	AQP2 AVP AVPR2	Lavender Top (EDTA) 2 x 4 mL	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing		28-Feb-20
DICER1 single gene test [S00555]	246	DICER1	Lavender Top (EDTA) 2 x 4 mL	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing		28-Feb-20
Dihydrotestosterone (DHT) LC-MS/MS, Serum/Plasma [DHTSM SP]	1459		Prefered: Serum (Gold SST). Acceptable: Plasma (EDTA or heparin). Store and send frozen. Stable 7 days at 4°C or 90 days frozen.	In-Common Laboratories		LC-MS/MS		13/Feb/26
Disaccharidase Determination, Small Bowel Biopsy	85		Intestinal biopsy, 2-5 mg wet weight. Best stored at -70°C until shipping and send on dry ice. Storage at -20°C is accepatble.	Gastroenterology Clinical Lab. Nemours/Alfred I.Dupont Hospital for Children, Wilmington, DE (www.nemours.org) (https://www.nemours.org/pediatric-research/labservices/diagnostic/gastroenterology-lab.html)		lactase, maltase, sucrase, palatinase and glucoamylase		28-Jul-26

Disorders of Sex Development Sequencing Panel with CNV Detection [4509]	1395	AMH 600957 AMHR2 600956 ANOS1 300836 AR 313700 ARL6 608845 ARX 300382 ATRX 300032 BBS1 209901 BBS10 610148 BBS12 610683 BBS2 606151 BBS4 600374 BBS5 603650 BBS7 607590 BBS9 607968 CBX2 602770 CHD7 608892 CYP11A1 118485 CYP17A1 609300 CYP19A1 107910 DHH 605423 DMRT1 602424 DMRT2 604935 FGF8 600483 FGFR1 136350 FGFR2 176943 FOXL2 605597 FSHB 136530 GATA4 600576 GNRH1 152760 GNRHR 138850 HESX1 601802 HFE 613609 HS6ST1 604846 HSD17B3 605573 KISS1 603286 KISS1R 604161 LEP 164160 LEPR 601007 LHCGR 152790 LHX3 600577 LHX4 602146 MAMLD1 300120 MAP3K1 600982 MKKS 604896 NR0B1 300473 NR5A1 184757 NSMF 608137 PCSK1 162150 POR 124015	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	3-Oxo-5 Alpha-Steroid Delta 4-Dehydrogenase Deficiency AD 264600 46,XX Sex Reversal, Type 1 AR 400045 46,XY Sex Reversal, Type 3 AD 612965 46,XY Sex Reversal, Type 5 AD 613080 46,XY Sex Reversal, Type 6 AD 613762 46,XY Sex Reversal, Type 7 AR 233420 Adrenal Insufficiency, Congenital, With 46,XY Sex Reversal, Partial Or Complete AR 613743 Androgen Resistance Syndrome XL 300068 Antley-Bixler Syndrome AR 207410 Antley-Bixler Syndrome With Genital Anomalies And Disordered Steroidogenesis AR 201750 ATR-X Syndrome XL 301040 Bardet-Biedl Syndrome 1 AR 209900 Bardet-Biedl Syndrome 10 AR 615987 Bardet-Biedl Syndrome 11 AR 615988 Bardet-Biedl Syndrome 12 AR 615989 Bardet-Biedl Syndrome 2 AR 615981 Bardet-Biedl Syndrome 3 AR 600151 Bardet-Biedl Syndrome 4 AR 615982 Bardet-Biedl Syndrome 5 AR 615983 Bardet-Biedl Syndrome 6 AR 605231 Bardet-Biedl Syndrome 7 AR 615984 Bardet-Biedl Syndrome 8 AR 615985 Bardet-Biedl Syndrome 9 AR 615986 Blepharophimosis, Ptosis, And Epicanthus Inversus AR 110100 Camptomelic Dysplasia AD 114290 Cholesterol Monooxygenase (Side-	Exome sequencing with CNV detection		10-Jul-23
Diuretic Screen, Urine [FDIRU]			Random urine	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	benzthiazide, bumetanide, chlorothiazide, chlorthalidone, furosemide, hydrochlorothiazide, hydroflumethiazide, and metolazone		To be verified.	

DNA Double-Standed Antibodies, IgG, Serum [ADNA]	1467		Serum SST. Stable at -20°C for 21 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		ELISA		20-Aug-21
Double-stranded DNA (dsDNA) Antibodies, Serum/Plasma [DNAAB]	1467	ant-dsDNA	Serum; Plasma (EDTA); Plasma (heparin); Plasma (Citrate). Store at -20°C.	In-Common Laboratories		ELISA	Replaces Mitogen. Also available as part of ANA panel.	31-Mar-25
Doxycycline [94093]	1467		Serum (2 mL). Store frozen.	Quest Diagnostics				21-Feb-20
Drug Dependent Platelet Antibody [9000]	1467		Gold SST	Blood Center of Wisconsin				
Drug Screen, Prescription/OTC, Urine [PDSU]	1467		Random urine	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Trifluoperazine (stelazine)			20-Oct-20
Duchenne and Becker Muscular Dystrophy (310200 and 300376)	617	DMD (300377)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)		1. Sanger sequencing 2. gene dosage		04-May-17

Dystonia Dyskinesia NGS Panel	1096	ANO3, ATP1A3, CACNA1B, CIZ1, COL6A3, DRD2, DRD5, GCH1, GNAL, HPCA, KCTD17, PNKD, PRKN, PRKRA, PRRT2, SCP2, SGCE, SLC2A1, SLC6A3, SPR, TAF1, TH, THAP1, TOR1A, TUBB4A	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Alternating hemiplegia of childhood 2 (614820); CAPOS syndrome (601338); Dystonia-12 (128235); Dystonia, myoclonic (159900); Dystonia, primary cervical; Dystonia 16 (612067); Convulsions, familial infantile, with paroxysmal choreoathetosis (602066); Episodic kinesigenic dyskinesia 1 (128200); Seizures, benign familial infantile, 2 (605751); Leukoencephalopathy with dystonia and motor neuropathy (613724); Dystonia-11, myoclonic (159900); Parkinsonism-dystonia, infantile (613315); Dystonia, dopa-responsive, due to sepiapterin	Next-Generation sequencing		2025/03/26
Dystonia/Parkinson Panel [T402]	1096		Lavender Top (EDTA)	GeneDx (www.genedx.com)		Next-Generation sequencing		20-Feb-25

Early-Onset Epileptic Encephalopathy Panel		ACY1, ADGRV1, ADSL, ALDH7A1, ALG13, ARFGEF2, ARHGEF15, ARHGEF9, ARX, ATP1A2, ATP6AP2, AUH, BCKDK, CACNA1A, CACNA2D2, CACNB4, CDKL5, CHD2, CHRNA2, CHRNA4, CHRNA7, CHRNB2, CLCN4, CLN3, CLN5, CLN6, CLN8, CNTNAP2, CPA6, CSTB, CTSD, CTSF, DEPDC5, DNAJC5, DNM1, DYNC1H1, DYRK1A, EEF1A2, EFHC1, EPM2A, FARS2, FOLR1, FOXG1, GABRA1, GABRB2, GABRB3, GABRD, GABRG2, GAMT, GATM, GNAO1, GOSR2, GRIN1, GRIN2A, GRIN2B, HCN1, HCN2, HNRNPU, IQSEC2, KANSL1, KCNB1, KCNH2, KCNH5, KCNJ10, KCNQ2, KCNQ3, KCNT1, KCTD7, KPNA7, LGI1, LIAS, MAGI2, MBD5, MECP2, MEF2C, MFSD8, MTOR, NEDD4L, NHLRC1, NR2F1, NRXN1, PCDH19, PIGA, PIGO, PIGV, PLCB1, PNKP, PNPO, POLG, PPT1, PRICKLE1, PRRT2, QARS, RBFOX1, RBFOX3, ROGDI, SCARB2, SCN1A	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)				2025/03/26
Eculizumab	909		Serum 0.5 mL. Separate and freeze within 2 h of collection.	Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org)	Solaris	ELISA	Now available at HSJ	22-Aug-18

Ehlers-Danlos Syndrome Panel [CA0101]	575	ADAMTS2, ATP7A, CHST14, COL1A1, COL1A2, COL3A1, COL5A1, COL5A2, DSE, FKBP14, FLNA, PLOD1, SLC39A13	Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing; Del Dupl		01-Feb-24
Encephalopathy, Autoimmune Evaluation [ENCES CSF]			CSF minimum 3 cc	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	IFA, RIA, CBA, WB	Requires special permission		09-Aug-22
Encephalopathy, Autoimmune Evaluation [ENCES serum]			Red top, 7-10 cc of blood	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	IFA, RIA, CBA, WB	Requires special permission		09-Aug-22

Essential Epilepsey Panel	356	ACY1, ADSL, ALDH7A1, ALG13, ARHGEF9, ARX, CDKL5, CHD2, CHRNA2, CHRNA4, CHRNB2, CNTNAP2, DEPDC5, DNM1, FOLR1, FOXG1, GABRA1, GABRB3, GABRG2, GAMT, GNAO1, GRIN2A, GRIN2B, HCN1, HNRNPU, KCNA2, KCNB1, KCNQ2, KCNQ3, KCNT1, LGI1, MAPK10, MBD5, MECP2, MEF2C, NRXN1, PCDH19, PLCB1, PNKP, PNPO, POLG, PRRT2, RNASEH2A, RNASEH2B, RNASEH2C, ROGDI, SAMHD1, SCN1A, SCN1B, SCN2A, SCN8A, SCN9A, SIK1, SLC19A3, SLC25A22, SLC2A1, SLC35A2, SLC9A6, SPTAN1, ST3GAL3, ST3GAL5, STXBP1, SYNGAP1, SZT2, TBC1D24, TCF4, TREX1, TSC1, TSC2, UBE3A, ZEB2	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)				2025/03/26
Estrone, Serum [E1]	1467		Red Top Only. Store at -20°C for up to 28 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	disorders of sex steroid metabolism	LC-MS		21-Nov-22
Ethyl glucuronide [ETGLUC]	1467		Random urine. Store frozen. Stable 90 days.	In-Common Laboratories		LC-MS/MS	Available at CHUM as ÉTHYLGLUCURONIDE ET ÉTHYL SULFATE; URINE (CHUM)	16-Apr-26
Everolimus, Blood [EVROL]			Lavender Top	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	TDM		HSJ; whole blood EDTA, store at 4°C	

F-Actin Ab, IgG, Serum [FACT]	1969		Serum (Gold or Red Top). Stable for 21 days at 4°C (preferred) or -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		ELISA		17-Aug-23
Factor B			0.5 mL red top serum- spun, separated, frozen within 2 hrs of collection; ship on dry ice	Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org)			In MORL panel	15-Nov-17
Factor H	64		2ml frozen serum.	Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org)		complement-mediated renal diseases FH (factor H)	Alternate sites Iowa, CHUQ (HEJ), & National Jewish (B1H)	06-Jan-23
Factor H autoantibodies	64		2ml frozen serum.	Cincinnati Children's Hospital Medical Center 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org)			Factor H Autoantibodies (CHU S-J) - plasma. In MORL panel	06-Jan-23
Familial Hemophagocytic Lymphohistiocytosis (FHL), Autosomal Recessive; type 2 (603553), type 3 (608898), type 4 (603552) and type 5 (613101)	1158	PRF1 (170280); UNC13D (MUNC13-4) (608897); STXBP2 (601717); RAB27A (603868); STX11 (605014)	Lavender Top (EDTA)	Cinncinatti Children's Hospital (Division of Human Genetics Diagnostic Laboratories)	PRF1 and STX11 also at: Hospital for Sick Children		For ADULTS ONLY. Available at Fulgent for $1110. For ≤18: Panel virtuel ciblé de gènes associés à l'hémophagocytose lymphohistiocytaire (HLH) et à l'infection chronique active au virus Epstein Bar at HSJ IMPORTANT : cette analyse est réservée aux cas pédiatriques (moins de 18 ans)	2026/06/02
Familial Hypocalciuric Hypercalcemia (FHH) Panel [10125]	805	AP2S1, CASR, GNA11	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		Next-Generation sequencing		10-Jul-23
Familial Limb Girdle Myasthenia Syndrome via DOK7 Gene [7629]	626	DOK7 (610285)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Myasthenia, Limb-Girdle, Familial (254300)		In HSJ.	10-Jul-23
Farmer's Lung IgG Antibodies, Serum [FLGAB]	1467		Serum (2 mL). Store frozen.	In-Common Laboratories	M. faeni IgG Ab; T. vulgaris IgG Ab	FEIA		10-Mar-20

Fat, Feces [FATF]	1467		For a random collection, a minimum of 5 g (do not send entire collection) is required. Store frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Nuclear Magnetic Resonance (NMR) Spectroscopy		03-Aug-22
Fatty Acid Oxidation Deficiency NGS Panel	528	ACAD9, ACADL, ACADM, ACADS, ACADVL, CPT1A, CPT1B, CPT2, ETFA, ETFB, ETFDH, GLUD1, HADH, HADHA, HADHB, HMGCL, HMGCS2, HSD17B10, LPIN1, SLC22A5, SLC25A20, TAZ	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Includes: Fatty liver, acute, of pregnancy (609016); HELLP syndrome, maternal, of pregnancy (609016)	NextGen Sequencing		2025/03/26
Fatty Acid Oxidation Syndrome Panel [ME1701]	1320		Lavender Top (2 x 4 mL)	Blueprint Genetics http://blueprintgenetics.com/		Next-Generation sequencing		29-Feb-20
Fatty Acid Profile, Essential Plasma [PFAPE]	1320		Preferred Green Top (Na heparin). Lavender top accepted. Store frozen, Stable 90 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				22-Sep-26
FH Autoantibody Testing	64		Panel requires at least 2ml frozen serum.	Molecular Otolaryngology & Renal Research Laboratory, U. of Iowa Carver College of Medicine (www.medicine.uiowa.edu/morl)	Hemolytic uremic syndrome, atypical, susceptibility to, 5 (612925)	ELSIA and other assays		01-Mar-25
FH Gene Sequencing & Del/Dupl [713]	1034	FH (136850)	Lavender Top (EDTA)	GeneDx (www.genedx.com)	fumarate hydratase; fumarase deficiency. Includes: Hereditary Leiomyomatosis and Renal cell Cancer (HLRCC) (150800)	Sanger sequencing and del/dupl		19-Jan-23

Fibrodysplasia ossificans progressiva (135100)		ACVR1 (102576)	Lavender Top (EDTA)	University of Pennsylvania School of Medicine	Fibrodysplasia ossificans progressiva (135100)	ACVR1 point mutation C617 G-A		
FLT3/NPM1	1395		Lavender Top (EDTA). Bone marrow. Stable 24-48 h at RT after draw. Do not freeze. Must be pre-approved.	Dept of Clinical Laboratory Genetics. Genome Diagnostics. Toronto General Hospital.		RNA	Reminder: Mark Urgent on Requisition	10-May-22
Fluconazole, Serum or Plasma [2089SP]	1118		Serum: Collect sample in Red top tube Plasma: Collect sample in Lavender top tube (EDTA)	NMS Laboratories		Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)		09-Jun-22
Fluphenazine (Prolixin), Serum [PROLX]	929		Serum Draw blood in a plain red-top tube(s), serum gel tube is not acceptable. Spin down and send 3 mL of serum refrigerated in a plastic vial.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Modecate	Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)		26-Jan-20
Focused Cytokine, Chemokine, Growth Factor (15-plex)	1523	GM-CSF, IFNγ, IL-1β, IL-1RA, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12p40, IL-12p70, IL-13, MCP-1, TNF-α	PREFERRED. Collect blood in a plasma EDTA tube (Purple Vacutainer). POOR CHOICE: Serum collection tube (Gold (SST) or Red Vacutainer). Store at -20°C. Stable 1 yr at -80°C. CSF accepted.	Mitogen Advanced Diagnostics		ALBIA		28-Aug-26
Focused Pharmacogenomics Panel [PGXFP]	1582	CYP1A2, CYP2C9, CYP2C19, CYP2D6, CYP3A4, CYP3A5, SLCO1B1, VKORC1, CYP4F2, and rs12777823	Lavender Top (EDTA); Saliva; DNA	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		TaqMan		24-Jan-25
Friedreich's Ataxia DNA Sequencing Analysis [348]	1710	FXN (FRDA) (606829)	Lavender Top (EDTA)	Athena Diagnostics (www.athenadiagnostics.com)	Friedreich ataxia (229300). Hop. Saint-Justin - triplet expansion; North York - triplet expansion $445	Sanger sequencing	Available at HSJ [55142]	27-Jun-00

FSHD - Detection of Abnormal Alleles with Interpretation (FSHD1 and FSHD2)	102	DUX4 (D4Z4) (606009); SMCHD1 (614982)	Lavender Top (EDTA). Rejection: Specimens collected more than 5 days before receipt by the laboratory. Must be pre-approved.	University of Iowa Diagnostic Laboratories (http://www.healthcare.uiowa.edu/path_handbook/rhandbook/test127.html)	FACIOSCAPULOHUMERAL MUSCULAR DYSTROPHY 1 (158900); Facioscapulohumeral Muscular Dystrophy 2 (158901)	Southern blot, 4qA.4qVhaplotyping; methylation; SMCHD1 sequencing		13-May-19
FUNGITEL BETA-D -Glucan Colorimetric Assay [317]	489		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a transport tube without interfering levels of (1→3)-β-D-Glucan. Most sterile polypropylene DNAase and RNAse free tubes are acceptable. CSF: Submit CSF in a sterile screw cap container. STABILITY Room Temperature: Not acceptable. Refrigerated: 5 days Frozen: Indefinitely	MiraVista Diagnostics	Elevated in fungal infection	Colorimetric Fungitell® assay utilizing a (1→3)-β-D-Glucan - specific Limulus Amebocyte Lysate (LAL)	Reserved for Microbiology.	04-Jun-26
Fungitell, Serum [FUNGS]	489		Collect 3-5 mL blood in a serum separator gel tube (SST). Centrifuge specimen within 2 hours. Ship serum gel tube frozen	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Replaced by: 1,3-Beta-D-Glucan (Fungitell), Serum		20-Jan-20
Gabapentin [GABA]	107		Red Top. Store and send frozen.	In-Common Laboratories		LC/UV		06-Sep-18
Galactose-alpha-1,3-galactose (Alpha-Gal) IgE [ALGAL]	1761		Collect RED or GOLD SST. Store at 4°C for 14 days or at -20°C (90 days).	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Phadia ImmunoCAP	Phadia ImmunoCAP	Available at ICL $120	09-May-23

Ganglioside Antibodies Profile IgG & IgM, Serum [GANGM S]	32	Anti GM1 IgG, Anti GM2 IgG, Anti GM3 IgG, Anti GD1a IgG, Anti GD1b IgG, Anti GT1b IgG, Anti GQ1b IgG, Anti GM1 IgM, Anti GM2 IgM, Anti GM3 IgM, Anti GD1a IgM, Anti GD1b	Serum (Red Top); Plasma (EDTA, Heparin, Citrate). Stable 14 d. Store frozen.	In-Common Laboratories		EUROImmun EUROBlotOne	Replaces Mitogen Neurological Disease Profile	09-Mar-23
Gaucher Disease (recurrent mutations)		GBA (606463)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Gaucher's Disease, Type 1 (230800); Gaucher Disease, Perinatal Lethal (608013); Subacute Neuronopathic Gaucher's Disease (230900); Gaucher Disease, Type IIIc (231005)	Direct mutation analysis (9 mutations);AKJ 90% sensitivity; others 50-60%		
GAUCHER DISEASE VIA THE GBA1/GBA GENE [479]	464	GBA (606463)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Gaucher's Disease, Type 1 (230800); Gaucher Disease, Perinatal Lethal (608013); Subacute Neuronopathic Gaucher's Disease (230900); Gaucher Disease, Type IIIc (231005)	Sanger sequencing		04-Jan-24
Gene dosage for FGFR2, FGFR3 & TWIST		FGFR2 (176943); FGFR3 (134934); TWIST1 (601622)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Craniosynostosis	del/dupl	To be verified.	
Genetic Eye Disease Panel for **Strabismus** (Gedi-S)		ROBO3, PHOX2A, HOXA1, SALL4, CHN1, TUBB3, KIF21A, HOXB1	Lavender Top (EDTA) 2-5 cc	Ocular genomics (https://ocular genomics.meei.harvard.edu/index.php/gdt)	Strabismus	NextGen Sequencing	To be verified.	

Genetic Renal Panel	1285	CFH (134370), CFI (217030), MCP (120920), CFB (138470), CFHR5 (608593), C3 (120700), THBD (188040), ADAMTS13 (604134), DGKE (601440), PLG (173350); CFHR3-CFHR1 (605336/134371)	Lavender Top (EDTA)	Molecular Otolaryngology & Renal Research Laboratory, U. of Iowa Carver College of Medicine (www.medicine.uiowa.edu/morl)	thrombotic microangiopathies: Hemolytic Uremic Syndrome, atypical Hemolytic Uremic Syndrome and Thrombotic Thrombocytopenic Purpura	Next-Generation sequencing; MLPA		01-Mar-25
Ghrelin	1467		Collect 10mL blood in special **ISI GI Preservative** tube yielding special GI plasma and separate in refrigerated centrifuge as soon as possible. Transfer 3-5mL immediately into non-glass shipping vial. Minimum specimen size is 1mL. Freeze specimen at -20°C.	InterScience Institute		EIA/ELISA		08-Dec-22
Gilbert Syndrome (UGT1A1) Single Gene Test	1340	UGT1A1 (191740)	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)	diagnosis of Gilbert (143500) or Crigler-Najjar syndromes (218800 and 606785); irinotecan & others sensitivity	Sanger sequencing		2025/03/26
GLA gene dosage	469	GLA (300644)	Lavender top (EDTA); Store at RT or 4°C for up to 48 h after drawing. At 4°C for >48 h.	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Fabry Disease (301500)	MLPA	To be verified.	

GLA gene sequencing	469	GLA (300644)	Lavender top (EDTA); Store at RT or 4°C for up to 48 h after drawing. At 4°C for >48 h.	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Fabry Disease (301500)	Sanger sequencing	To be verified.	
Glucagon, Plasma [GLP]	110		Collection Container/Tube: Lavender top (EDTA) Submission Container/Tube: Plastic vial Specimen Volume: 2 mL Collection Instructions: 1. Fasting. 2. Prechill tube at 4 degrees C before drawing the specimen. 3. Draw the prechilled tube, and process as follows: a. After drawing specimen, chill tube in wet ice for 10 minutes. b. Centrifuge in a refrigerated centrifuge or in chilled centrifuge cup. c. Immediately after centrifugation, remove plasma, place in a plastic transport vial (Supply T465), and freeze.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		RIA		17-Mar-20
GLUCOSE TRANSPORTER TYPE 1 DEFICIENCY SYNDROME (06777)		SLC2A1 (138140)	Lavender Top (EDTA)	BC Children's Hospital & BC Women's Hospital, Canada (http://www.genebc.ca)		Sanger sequencing & reflex MLPA		19-Oct-17
GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY VIA THE G6PD GENE [7657]		G6PD (305900)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Hemolytic anemia due to G6PD deficiency (300908)	Sanger sequencing		10-Jul-23

GLUT1 Deficiency Syndrome (SLC2A1 Single Gene Test)	262	SLC2A1 (138140)	Lavender Top (EDTA) [2 tubes]	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
Glutamate Receptor R1							NOT AVAILABLE: Wash U, Mayo, Oxford	21-Apr-17
Glycine Receptor Alpha1 IgG, Cell Binding Assay, Serum [GLYCS]	938		Serum. Red Top Only. Store frozen. Stable for 28 days at 4°C and 28 days at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		live cell binding assay		07-Mar-24
Glycogen Storage Disease and Disorders of Glucose Metabolism Sequencing Panel with CNV Detection [10385]	476	AGL 610860 ALDOA 103850 ALDOB 612724 ENO3 131370 G6PC 613742 GAA 606800 GBE1 607839 GYG1 603942 GYS1 138570 GYS2 138571 LAMP2 309060 LDHA 150000 PC 608786 PCK1 614168 PCK2 614095 PFKM 610681 PGAM2 612931 PGM1 171900 PHKA1 311870 PHKA2 300798 PHKB 172490 PHKG2 172471 PRKAG2 602743 PYGL 613741 PYGM 608455 SLC16A1 600682 SLC2A2 138160 SLC37A4 602671	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Glycogen Storage Disease Type III (232400); Glycogen Storage Disease Type IA (232200); Glycogen Storage Disease Type II (232300); Glycogen Storage Disease Type IV (232500); Glycogen Storage Disease Type 0 (240600); Glycogen Storage Disease Type VII (232800); Glycogen Storage Disease Type IXd (300559); Glycogen Storage Disease Type IXa1 (306000); Glycogen Storage Disease Type IX (261750); Glycogen Storage Disease Type IXc (613027); Glycogen Storage Disease Type VI (232700); Glycogen Storage Disease Type V (232600); Glycogen Storage Disease Type Ib (232200);	Next Generation Sequencing (NGS) and Sanger sequencing technologies		10-Jul-23
GLYCOGEN STORAGE DISEASE TYPE III VIA THE AGL GENE [9349]	476	AGL (610680)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Glycogen Storage Disease Type III (GSDIII) (232400)	Sanger sequencing		10-Jul-23

GLYCOGEN STORAGE DISEASE TYPE IV VIA THE GBE1 GENE [5431]	476	GBE1 (607893)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Glycogen Storage Disease Type IV (232500)	Sanger sequencing		10-Jul-23
Goose Feather (e70) IgE, Serum	1419		Gold SST	Check if available at CHUM				07-Oct-19
Goose Feather (e70) IgE, Serum	1836		Red Top ONLY. SST are NOT acceaptable. Store at 4°C 30 d. Store frozen 1 yr.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Includes neutrophils	Flow cytometry		03-Oct-25
Granulocyte Monocyte - Colony Stimulating Factor, Plasma [GMCSF]	1465		Plasma EDTA. Draw & place on ice. Freeze with 2 h. Stable 21 days frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		bead-based multiplex immunoassay		28-Jan-25
GRHPR Gene, Full Gene Analysis [GRHMS]		GRHPR (604296)	Lavender top (EDTA)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Hyperoxaluria, primary, type II (296000)	Sanger sequencing and. MLPA		
Growth Hormone Releasing Hormone (GH-RH)			3 ml serum (Red or Gold Top) or EDTA plasma should be collected and separated as soon as possible. Freeze the plasma immediately after separation. Minimum specimen size is 1 ml.	InterScience Institute				19-Jan-23
Haloperidol, Serum,/Plasma [HOT}	115		Red Top or Li heparin (light Green Top)	In-Common Laboratories		LC-MS		12-Mar-26
Hearing Loss: Branchio-Oto-Renal (BOR) Syndrome (115630)		EYA1 (601653)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)		1. EYA1 gene sequencing 2. EYA1 gene dossage	To be verified.	

Hearing Loss: Non-Syndromic (Connexin 26 & 30)		GJB2 (121011); GJB6 (604418)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)		1. GJB2 sequencing and GJB6 deletion 2. GJB2 sequencing only	To be verified.	
Heparin Induced Thrombocytopenia Testing [HIT]	116		1) RED TOP. 4 mL. Draw blood into red-top vacutainer and allow to clot. Centrifuge and transfer serum to two plastic tube. 2) Freeze promptly. Ship frozen	Platelet Immunology Laboratory, McMaster University		HIT Confirmatory Test (Serotonin Release Assay; SRA) $500; HIT Screen test (Anti-PF4/heparin EIA) $200; SRA & EIA $500		24-Aug-23
Hereditary Angioedema Gene Panel I; Hereditary Angioedema Panel Gene Panel II	1505	Panel I: SERPING1, F12, KNG1, ANGPT1; Panel II: SERPING1, PLG, MYOF, HS3ST6	Lavender Top (EDTA)	VIRANT Diagnostics		Next-Generation sequencing	Only HAE I & II panels can be approved & no others. Always confirm with requisition.	27-Nov-25
Hereditary Cerebral Small Vessel Disease Panel [53701]	1582	COL4A1, COL4A2, COLGALT1, CTC1, CTSA, FOXC1, GLA, HTRA1, NOTCH3, TREX1	Lavender Top (EDTA)	Invitae/Dynacare		Next-Generation sequencing	SUSPENDED	08-Apr-25
HEREDITARY DIFFUSE GASTRIC CANCER (137215) VIA THE CDH1 GENE [7393]		CDH1 (192090)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)				10-Jul-23
Hereditary Erythrocytosis Mutations [HEMP]	1582	EPOR (133171), VHL (608537), EGLN1(PHD2) (606425), EPAS1 (HIF2A) (603349)	Lavender Top (EDTA)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Erythrocytosis, familial, 1 (133100); Erythrocytosis, familial, 2 (263400); Erythrocytosis, familial, 3 (609820); Erythrocytosis, familial, 4 (611783)	Sanger sequencing. Panel: EPOR: 133171, EGLN1: 606425, EPAS1: 603349, As reflex VHL: 608537		20-Oct-20

HEREDITARY HEMOCHROMATOSIS PANEL [10243]	1655	FTH1 (134770); FTL (134790); HAMP (606464); HFE (613609); HJV (608374); SLC40A1 (60463); TFR2 (604720)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Hemochromatosis Type 5 (615517); Hyperferritinemia Cataract Syndrome (600886); Hemochromatosis Type 4 (606069); Hemochromatosis Type 2 (602390); Hemochromatosis Type 2B (613313); Hemochromatosis Type 3 (604250); Hemochromatosis Type 1 (235200)	Next-Generation sequencing		23-Jun-26
Hereditary Hemorrhagic Telangiectasia (HHT) Panel [10131]	242	EPHB4, GDF2, RASA1ENG (131195), ACVRL1 (601284), SMAD4 (600993)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Telangiectasia, hereditary hemorrhagic, type 1 (187300) (OSLER-RENDU-WEBER DISEASE);Telangiectasia, hereditary hemorrhagic, type 2 (600376); Juvenile polyposis/hereditary hemorrhagic telangiectasia syndrome (175050)	Sanger sequencing and MLPA	HSC significantly more expensive.	02-Jul-26
Hereditary Hemorrhagic Telangiectasia and Vascular Malforfmations Panel [02352]	242	ENG (131195), ACVRL1 (ALK1) (601284), SMAD4 (600993) EPHB4 GDF2	Lavender Top (EDTA)	Invitae (www.invitae.com)			SUSPENDED	23-Jan-24
Hereditary Melanoma and Skin Cancer Panel [ON0501]	243		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NextGen Sequencing		16-Sep-25

Hereditary Neuropathy Sequencing & Del/Dup Panel [737]	656	AARS, ATL1, ATP7A, BSCL2, DNAJB2, DNM2, DNMT1, DYNC1H1, EGR2, FAM134B, FGD4, FIG4, GAN, GARS, GDAP1, GJB1, GLA, HINT1, HSPB1, HSPB8, IGHMBP2, IKBKAP, INF2, KIF1A, KIF5A, LITAF, LMNA, LRSAM1, MFN2, MPZ, MTMR2, NDRG1, NEFL, NGF, NTRK1, PLEKHG5, PMP22, PRPS1, PRX, RAB7A, REEP1 (C2ORF23), SBF2, SCN9A, SH3TC2, SLC12A6, SLC52A2, SPTLC1, SPTLC2, TFG, TRPV4, TTR, WNK1 (exon 10 only), YARS	Lavender Top (EDTA)	GeneDx		NGS	See also CMT Panel at Blueprint [NE1301]	31-May-22
Hereditary Spastic Paraplegia: Autosomal Dominant [HSP-Panel 1]	657	ALDH18A1 ATL1 BSCL2 C10orf2 HSPD1 KIAA0196 KIF5A NIPA1 POLG POLG2 REEP1 SPAST RTN2 SLC33A1 SETX	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)		NextGen Sequencing	Price of individual genes: $500 (seq) + 500$ (del/dupl)	21-Aug-19

Hereditary Spastic Paraplegia: Autosomal Recessive [HSP-Panel 2]	657	ALDH18A1 ALS2 AP4B1 AP4E1 AP4M1 AP4S1 AP5Z1 C10orf2 C12orf65 C19orf12 CYP2U1 CYP7B1 DDHD1 DDHD2 ENTPD1 ERLIN1 ERLIN2 FA2H GBA2 GJC2 KIF1A KIF1C NT5C2 PGAP1 PNPLA6 POLG SACS SPG11 SPG20 SPG21 SPG7 TECPR2 VPS37A	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)		NextGen Sequencing	Price of individual genes: $500 (seq) + 500$ (del/dupl)	21-Aug-19

Hereditary Spastic Paraplegia: Comprehensive Testing [HSP-COMP]	657	ALDH18A1 ATL1 BSCL2 C10orf2 HSPD1 KIAA0196 KIF5A NIPA1 POLG POLG2 REEP1 SPAST RTN2 SLC33A1 SETX ALS2 AP4B1 AP4E1 AP4M1 AP4S1 AP5Z1 C10orf2 C12orf65 C19orf12 CYP2U1 CYP7B1 DDHD1 DDHD2 ENTPD1 ERLIN1 ERLIN2 FA2H GBA2	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)		NextGen Sequencing	Price of individual genes: $500 (seq) + 500$ (del/dupl)	21-Aug-19
Hereditary Spastic Paraplegia: Deletion & Duplication Analysis [HSP-DOSAGE]	657		Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)		Deletion & Duplication analysis by exon targeted microarray		21-Aug-19

Heterotaxy and Situs Inversus NGS Panel	385	CVR2B, CCDC39, CCDC40, CFC1, DNAAF1, DNAAF2, DNAAF3, DNAH11, DNAH5, DNAI1, DNAI2, DNAL1, FOXH1, GDF1, INVS, LEFTY2, NKX2-5, NME8, NODAL, ZIC3	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
Histamine, 24-Hour Urine [FH24U]	117		4 mL urine from a 24-hour collection containing 10 mL 6N HCl; Altenate: No presevative. Specimen Stability: Room temperature: 48 hours, Refrigerated: 14 days, Frozen: 14 days. Patient should refrain from taking allergy causing drugs, antihistamines, oral corticosteroids, and substances which block H2 receptors for at least 24 hours prior to specimen collection.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	carcinoid	Immunoassay		13-Jul-21
Histamine, Plasma [FHSPL]	117		Draw 3 mL blood in a lavender-top (EDTA) tube(s). Cool immediately on ice. Centrifuge at 1500 rpm for 10 minutes at 4 degrees C. The centrifugation should be performed within 20 minutes of collection. Carefully remove 1 mL of EDTA plasma from the upper part of the tube. Freeze and send frozen in a plastic vial.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		EIA		01-May-24

Histoplasma Antibody IgG, IgM, EIA [326]	396		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. CSF: Sterile transport tube.STABILITY Room Temperature: 14 days Refrigerated: 14 days Frozen: 14 days	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22
Histoplasma Antibody, Serum [SHSTO]			Red Top	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Histoplasmosis		Reserved for Microbiology	20-Oct-20
Histoplasma Antigen Quantitative EIA [310}	396		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. Plasma: Collect plasma specimens in an EDTA, heparin or sodium citrate tube. Centrifuge for 15 minutes and pipette plasma into a plastic screw cap vial. Urine/CSF/BAL/Other Body Fluid: Submit urine, CSF, BAL and all other body fluids in a sterile screw cap container. STABILITY Room Temperature: 2 weeks Refrigerated: 2 weeks Frozen: Indefinitely	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22

Histplasma Antibody by Immunodiffusion [321]	396		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. STABILITY Refrigerated: 14 days Frozen: 6 months	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22
HLH Genetic Panel	1158		Lavender Top (EDTA)	MachaonDiagnostics.com	hemophagocytic lymphohistiocytosis (HLH)		Requires special approval. Available at HSJ and Cinncinnatti Children's Hospital.	28-Jul-26
Hydroxychloroquine, Serum [HCHQ]	1689		Red Top PREFERRED. Store at -20°C (stable 28 d).	In Common Laboratories		LC-MS/MS		25-Nov-25
Hydroxychloroquine, Blood [HCHQWB]	1689		Lavender Top (EDTA). Store 4°C or -20°C (28 d).	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS/MS		27-Aug-26
Hyper IgE Syndrome Panel [10169]	1258	DOCK8 (614443), SPINK5 (605010), STAT3 (102582), TYK2 (176941)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Hyper-IgE recurrent infection syndrome {147060); Hyper-IgE recurrent infection syndrome, autosomal recessive (243700); Netherton syndrome (256500); Tyrosine kinase 2 deficiency (611521)	Exon Array CGH, Next-gen Sequencing		10-Jul-23

Hyperglycemia and Hypoglycemia via the GCK Gene [8427]		GCK (138079)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Hyperinsulinemic Hypoglycemia, Familial 3 (602485); Maturity-Onset Diabetes Of The Young, Type 2 (125851); Permanent Neonatal Diabetes Mellitus (606176)	Sanger sequencing		10-Jul-23
Hyperglycosylated hCG			Gold SST	Quest Laboratories	First trimester screen for Down syndrome and trisomy 18		SUSPENDED	
Hyperlipidemia Panel Plus Analysis [CA1101]	1533	ABCA1 (600046), ABCG5 (605459); ABC8 (603076); APOA1 (107680); APOB (143890); APOC3 (107720); APOE (107741); LDLR (144010); LDLRAP1 (81479); LPL (699708); PCSK9 (603776)	Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/	Familial Hypercholesterolemia (143890); Hypercholesterolemia, Autosomal Dominant, Type B (144010); Hypercholesterolemia, Autosomal Dominant, 3 (603776); Hypercholesterolemia, Autosomal Recessive (603813)	Next Generation DNA Sequencing + Del/Dupl	Family Member testing $450. Available at IdC.	16-Jun-17

Hypoglycemia Panel [12057]	433	ACADM 607008 ACADVL 609575 ACAT1 607809 ACSF3 614245 AGL 610860 ALDOB 612724 CA5A 114761 DGUOK 601465 ETFA 608053 ETFB 130410 ETFDH 231675 FBP1 611570 G6PC 613742 GALT 606999 GK 300474 GYS2 138571 HADH 601609 HMGCL 613898 HMGCS2 600234 MLYCD 606761 MPV17 137960 NNT 607878 OXCT1 601424 PC 608786 PCK1 614168 PCK2 614095 PGM1 171900 PHKA2 300798 PHKB 172490 PHKG2 172471	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	3-Hydroxy-3-Methylglutaryl-CoA Lyase Deficiency AR 246450 Alpha-Methylacetoacetic Aciduria AR 203750 Combined Malonic And Methylmalonic Aciduria AR 614265 Congenital Disorder of Glycosylation, Type It AR 614921 Fanconi-Bickel Syndrome AR 227810 Fructose-Biphosphatase Deficiency AR 229700 Galactosemia AR 230400 Glycogen Storage Disease 0, Liver AR 240600 Glycogen Storage Disease Type Ia AR 232200 Glycogen Storage Disease Type Ib AR 232220 Glycogen Storage Disease Type Ic AR 232240 Glycogen Storage Disease Type III AR 232400 Glycogen Storage Disease Type IXa1 XL 306000 Glycogen Storage Disease Type IXc AR 613027 Glycogen Storage Disease Type VI AR 232700 Glycogen Storage DiseaseType IXb AR 261750 Hereditary Fructose Intolerance AR 229600 Malonyl-CoA Decarboxylase Deficiency AR 248360 Monocarboxylate Transporter 1 Deficiency AD,AR 616095 Phosphoenolpyruvate Carboxykinase Deficiency, Cytosolic AR 261680 Phosphoenolpyruvate Carboxykinase Deficiency, Mitochondrial AR 261650 Pyruvate Carboxylase Deficiency AR 266150 Succinyl-CoA Acetoacetate Transferase Deficiency AR 245050	NextGen Sequencing		25-Feb-25
Hypomyelinating leukodystrophy 7 and 8 (4H syndrome, 607694 and 614381)	964	POLR3A (614258); POLR3B (614366)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing	See HSJ	2025/03/26
HYPOMYELINATION AND CONGENITAL CATARACT (HCC) VIA THE HYCC1/FAM126A GENE [11317]		FAM126A (610531)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Hypomyelination And Congenital Cataract (610532)	Sanger sequencing		10-Jul-23

Hypophosphatasia via the ALPL Gene [851]		ALPL (171760)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Adult Hypophosphatasia (146300); Childhood Hypophosphatasia (241510); Infantile Hypophosphatasia (241500)			11-Jun-18
IA-2 Antibodies, Serum [IA2QST]]	858		Gold SST or Red Top. Specimen Stability - Room temperature: 7 days Refrigerated: 7 days Frozen: 30 days	In-Common Laboratories	Synonyms:anti-tyrosine phosphatase or anti-Islet antibody; ICA-512	ELISA		01-Oct-26
IBD sgi Diagnostic [1800]	120		2.0 mL Serum (Red Top or SST) AND 2.0 mL Whole Blood EDTA / Lavender Top Tube. Store at 4°C.	Prometheus Biosciences	differentiate among IBD types			
Ibuprofen (Motrin, Advil, Nuprin), serum [FIBUP]			Collect Plain Red. Also acceptable: Green top. NO GEL. Specimen Preparation Separate from cells. Transfer 1 mL serum or plasma to plastic vial. Store frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Optimize drug therapy and monitor patient adherence.	HPLC-UV		20-Nov-17
Ichthyosis Panel [DE0601]	1216	SLC27A4 (604194)	Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/	ichthyosis prematurity syndrome (608649}	NGS		10-Jul-23
IDH Mutations [IDH]	1395		Solid tumor biopsy. Other sample type available	UW Mediicne Laboratory Mediicne & Pathology. https://dlmp.uw.edu/test-guide/view/IDH	Please note that IDH Mutations is intended for solid tumors, for testing related to hematologic malignancies, please order - Heme Single Gene by NGS [HCAPSG].	IDH1 & IDH2 exon 4 NGS		13-Oct-26
Idiopathic Ataxia/Peripheral Neuropathy Anti MPP-1 (LDT)	1467		Gold SST or Red Top	Mitogen Advanced Diagnostics				13-Jan-26

Idiopathic Generalized Epilepsy Panel	1031	ADSL, ALDH7A1, ARHGEF9, ARX, ATP6AP2, ATRX, CACNA1A, CACNA1H, CACNB4, CASK, CASR, CDKL5, CHD2, CHRNA2, CHRNA4, CHRNB2, CLCN2, CNTN2, CNTNAP2, CPA6, CSTB, CUL4B, DCX, DEPDC5, DHFR, DNAJC5, DYNC1H1, EFHC1, EPM2A, FGD1, FOXG1, GABRA1, GABRB3, GABRD, GABRG2, GOSR2, GPC3, GRIA3, GRIN2A, HSD17B10, KANSL1, KCNC1, KCNJ10, KCNMA1, KCNQ2, KCNQ3, KCNT1, KCTD7, KDM5C, LGI1, MBD5, ME2, MECP2, MEF2C, NHLRC1, NIPA2, NRXN1, OFD1, OPHN1, PAK3, PCDH19, PHF6, PIGA, PLP1, PQBP1, PRICKLE1, PRICKLE2, PRRT2, RAB39B, ROGDI, SCARB2, SCN1A, SCN1B, SCN2A, SCN8A, SCN9A, SLC2A1, SLC9A6, SMC1A, SRPX2, STX1B, STXBP1, SYN1, SYNGAP1, SYP, TBC1D24, TCF4, UBE3A, ZEB2	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)			Panel virtuel ciblé de gènes associés à l'épilepsie analysé à partir de l'exome (inclus dans le panel associé aux troubles développementaux (55360)) IMPORTANT : cette analyse doit être demandée en trio	2025/03/26
IGF Binding Protein-1 (IGFBP-1) [FIGBP]			Draw blood in a plain, red-top tube(s). Spin down and separate within one hour. Ship 0.5 mL frozen in a plastic vial.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		RIA		20-Nov-17
IGF-2 [FFIG2]	123		Draw blood in a RED TOP OR GOLD SST acceptable. Separate within 1 hour of collection. Freeze immediately. STABLE 14 Days at -20°C.	Mayo Clinical Laboratories (Esoterix)				17-Dec-25

IL-2 by Luminex [LIL2]	1523		Plasma from a lavender top (EDTA) tube is the only acceptable sample type. Mix sample thoroughly. Specimen Preparation: Centrifuge at room temp within one half hour of collection; preferably immediately after venipuncture. Transfer the cell-free plasma to a clean tube and immediately freeze the cell-free plasma on dry ice or at -70°C.	National Jewish Health		Luminex		18-Mar-21
IL12Rß1 (CD212) [IL12PATHWAY]	817		Heparin	Alberta Precision Laboratories (Flow Cytometry - Calgary)			To be accompanied by normal control sample	14-Oct-20
Immune Complexes, Serum/Plasma [C1QBIND]	1467		Gold SST. Store at -20°C.	In Common Laboratories				20-Aug-25
Inclusion body myopathy and autosomal recessive, ealrly onset myopathy via the MYH2 gene [9837]		MYH2 (160740)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Inclusion Body Myopathy 3 (605637)	Sanger sequencing	Transfered to HSJ.	10-Jul-23
Infliximab et Ac anti-infliximab [30098]			Serum. Stable 48 h at RT, 5 days at 4°C, or 30 days at -20°C.	L'Hôpital Maisonneuve-Rosement		ELISA		
INGγR12 (CD119) [ILFGPATHWAY]	817		Heparin	Alberta Precision Laboratories (Flow Cytometry - Calgary)			To be accompanied by normal control sample	14-Oct-20
Inhibin A, Tumor Marker, Serum [INHA]			Red Top. Store at 4°C (7 days) or frozen (90 days).	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Inhibin B available at CHUM (Gold Top)	Sequential 2-Step Immunoenzymatic Assay	Transfered to HSJ.	18-Jul-17
Insulin Antibodies, Serum [INSAB]	858		Gold SST or Red Top. Stable 7 days at 4°C and 28 days at -20°C.	In Common Laboratories		RIA		11-Oct-26
Insulin Human (c73) IgE [HUMINSU]	858		Serum. Stable 3 days at 4°C and 6 months at -20°C.	In Common Laboratories		ImmunoCAP		11-Oct-26

Insulin Receptor		INSR (147670)	Lavender Top (EDTA) 2-4 cc (1-2 cc for children less than 1year old)	Fulgent Genetics (fulgentdiagnostics.com)	Hyperinsulinemic hypoglycemia familial 5 (609968); Insulin-resistant diabetes mellitus AND acanthosis nigricans (610549); Leprechaunism syndrome (246200); Pineal hyperplasia AND diabetes mellitus syndrome (262190)	NGS and CGH		2025/03/26
Insulin-Like Growth Factor 1 (IGF1), LC-MS and Insulin-Like Growth Factor-Binding Protein 3 (IGFBP3) Growth Panel [IGFGP]	123		Red Top. Split into 2 plastic vials.Store and send serum frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		IGFMS: Liquid Chromatography-Mass Spectrometry (LC-MS) IGFB3: Enzyme-Labeled Chemiluminescent Immunometric Assay	Not M-R	27-Aug-23
Insulin-Like Growth Factor 1 [IGF-1]			Red Top	Royal Victoria Hospital	somatomedin C			
Intact Fibroblast Growth Factor 23 (FGF23), Serum [IFG23]	448		Serum SST. Stable at -20°C for 90 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		ELSIA	No longer available at CHUM as in province testing.	23-Jul-23

Intellectual Disability NGS Panel	920	ABCC6, ABCD1, ABCG5, ACAT1, ACOX1, ACSL4, ACY1, ADAR, ADSL, AFF2, AGL, AGT, AGTR2, AHI1, AIFM1, ALDH18A1, ALDH4A1, ALDH5A1, ALG11, ALG12, ALG6, ALX4, AMER1, ANK3, ANKRD11, AP1S1, AP1S2, AP3B1, AP4B1, AP4E1, AP4M1, AP4S1, AR, ARG1, ARHGEF6, ARHGEF9, ARID1A, ARID1B, ARX, ASPM, ASS1, ATL1, ATP10A, ATP13A2, ATP1A2, ATP6AP2, ATP7A, ATRX, AUH, AUTS2, AVP, AVPR1A, AVPR2, BBS9, BCOR, BCS1L, BDNF, BIN1, BRAF, BRIP1, BRWD3, BUB1B, CACNA1C, CACNG2, CAMTA1, CANT1, CASK, CBS, CC2D1A, CC2D2A, CCDC22, CCDC88C, CDH15, CDK16, CDKL5, CDKN1C, CEP290, CEP41, CEP57, CHD7, CHD8, CHRNA4, CLCN4, CLIC2, CLN3, CNKSR2, CNTNAP2, CNTNAP5, COG5, COG7, COL1A2, CP, CPA6, CPS1, CRADD, CRBN, CREBBP, CTC1, CTNNB1, CTSA, CUL4B, CYB5R3, CYP27A1, D2HGDH, DARS2, DBT, DCX, DHCR24, DHCR7, DKC1, DLG3, DLGAP2, DMD, DOCK4, DPP10, DPP6, DPYD, DYNC1H1, DYRK1A, EBP, EFNB1, EHMT1, EIF2S3, ELOVL4, ERCC2, ERCC3, ERCC5, ERCC6, ERCC8, FAAH2, FAM126A, FANCB, FANCG, FBLN5, FBN1, FGD1, FGF14, FGFR1, FGFR2, FGFR3, FKRP, FKTN, FLNA, FMR1, FOLR1, FOXG1, FOXP1, FOXP2, FRMPD4, FTO, FTSJ1, G6PC3, GABRB3, GABRG1, GABRG2, GALE, GAMT, GAN, GBA, GBE1, GCK, GDI1, GFAP, GFM1, GHR, GK, GLI3, GLRA1, GLUL, GLYCTK, GM2A, GNA14, GNAS, GNPAT, GNPTAB, GNPTG, GPC3, GRIA3, GRIK2, GRIN1, GRIN2A, GRIN2B, GRM1, GRPR, GSPT2, GSS, GUSB, GYS2, HAX1, HCCS, HCFC1, HDAC4, HDAC8, HECW2, HEPACAM, HEXB, HOXA1, HOXD10, HPD, HPRT1, HSD17B10, HSPD1, HUWE1, IDS, IGBP1, IGF1, IGF1R, IL1RAPL1, IMMP2L, INSR, IQSEC2, IRX5, ITGA7, KATNAL2, KCNJ10, KCNJ11, KCNK9, KCNQ2, KCTD13, KCTD7, KDM5C, KDM6A, KIAA2022, KIF11, KIF1A, KIF21A, KIF5A, KIF7, KIRREL3, KLF8,	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing	Available at HSJ.	26-Mar-25
Interferon Beta Neutralizing Antibodies In MS Patient Treated With IFN [P91858]			Gold SST	Neuro-Immunology Laboratories (UBC)				
Interlukin 2 Receptor, Soluble [FIL2S]	927		Serum. Store at -20°C. Stable 1 year.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	hemophagocytic lymphohistiocytosis (HLH)	Luminex Bead assay.	Sent though MCL. Performed at ARUP.	27-Jan-25
Interleukin-2 (IL-2) Receptor – Soluble (CD25), Plasma [SILCD25P]	927		EDTA plasma. Store frozen.	In Common Laboratories. Performed at HSC.	hemophagocytic lymphohistiocytosis (HLH)	Flourescent Immunoassay		08-Apr-26

Interstitial Lung Disease Antibody (ILD) Profile	1724		Gold SST or Red Top. Does NOT accept CSF.	Mitogen Advanced Diagnostics		LIA		13-Jan-26
Iron-refractory Iron Deficiency Anemia (TMPRSS6 Single Gene Test)		TMPRSS6 (609862)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Iron refractory iron deficiency anemia (206200)	NextGen Sequencing		2025/03/26
ITGA9 - Single Gene Testing		ITGA9 (603963)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Integrin alpha 9	NextGen Sequencing		2025/03/26
JAG1 Gene Sequencing & Del/Dup [1004]		JAG1 (601920)	Lavender Top (EDTA)	GeneDx (www.genedx.com)	Alagille syndrome (118450)			15-Sep-22
Jaundice Chip			Lavender Top (EDTA)	Cinncinatti Children's Hospital (Division of Human Genetics Diagnostic Laboratories)	multiple genes	gene chip		
JOUBERT AND MECKEL-GRUBER SYNDROMES NEXTGEN SEQUENCING (NGS) PANEL [10387]	332	HI1 (608894) ARL13B (608922) B9D1 (614144) B9D2 (611951) C5orf42 (614571) CC2D2A (612013) CEP290 (610142) CEP41 (610523) INPP5E (613037) KIF7 (611254) MKS1 (609883) NPHP1 (607100) NPHP3 (608002) OFD1 (300170) RPGRIP1L (610937) TCTN1 (609863) TCTN2 (613846) TCTN3 (613847) TMEM138 (614459) TMEM216 (613277) TMEM231 (614949) TMEM237 (614423) TMEM67 (609884) TTC21B (612014) ZNF423 (604557)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		NextGen Sequencing		10-Jul-23
Juvenile Polyposis Syndrome (610069 and 174900) [536]		BMPR1A (601299); SMAD4 (600993)	Lavender Top (EDTA)	GeneDx (www.genedx.com)		Tier 1: Sanger Sequencing, Exon Array CGH		15-Sep-22

Juvenile Polyposis Syndrome (610069 and 174900) [537]		BMPR1A (601299)	Lavender Top (EDTA)	GeneDx (www.genedx.com)		Tier 2: sequencing		15-Sep-22
Juvenile Polyposis Syndrome (610069 and 174900) [538]		BMPR1A (601299); SMAD4 (600993)	Lavender Top (EDTA)	GeneDx (www.genedx.com)		Tier 3: Exon Array CGH		15-Sep-22
Kidney Dysplasia NGS Panel	1615	ACE, AGT, AGTR1, ANOS1, BMP4, BMP7, CDC5L, CHD1L, DSTYK, EYA1, FGF20, FGFR2, FRAS1, FREM1, FREM2, GATA3, GLI3, GRIP1, HNF1B, HOXA13, HOXA4, HOXB6, HPSE2, ITGA8, LRP4, MUC1, MYH9, NIPBL, PAX2, REN, RET, ROBO2, SALL1, SIX1, SIX2, SIX5, SOX17, TRAP1, UMOD, UPK3A, WNT4	Lavender Top (EDTA) [2 tubes]	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
KIT Single Gene	1537	cKit (164920)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Systemic mastocytosis (154800)	NextGen Sequencing		2025/03/26
KRABBE DISEASE VIA THE GALC GENE [7883]		GALC (606890)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Galactosylceramide Beta-Galactosidase Deficiency (245200)	NGS	enzyme activity at HSJ	10-Jul-23
L1CAM (fetal sexing)		L1CAM (308840)	Gold SST	Laboratoire Cerba (www.lab-cerba.com)			At HSJ; Détermination du sexe fœtal par analyse de l'ADN circulant (pour risque génétique) (SNG). Prohibited as OOP	2026/06/02
L1CAM Gene Sequencing & Del/Dup [552]		L1CAM (308840)	Lavender Top (EDTA)	GeneDx (www.genedx.com)	X-Linked Hydrocephalus Syndrome (307000); Spastic Paraplegia 1 (303350); Corpus Callosum, Partial Agenesis Of, X-Linked (304100)	1. Sanger sequencing and aCGH 2. targeted mutation		15-Sep-22

Lacosamide, Serum [LACO]	1572		RED OR GOLD TOP. Store frozen	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		HPLC-MS		26-May-26
LAMINOPATHIES VIA THE LMNA GENE [347]		LMNA (150330)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Charcot-Marie-Tooth Disease Type 2B1 (605588); Limb-Girdle Muscular Dystrophy, Type 1B (159001); Lipodystrophy, Familial Partial, Dunnigan Type (151660); Dilated Cardiomyopathy 1A (115200); Emery-Dreifuss Muscular Dystrophy, Autosomal Dominan (151350)t; Restrictive Dermopathy, Lethal (275210); Hutchinson-Gilford Syndrome (176670)	Sanger sequencing	Transfered to HSJ.	08-Nov-24

Leigh disease and Leigh-like syndromes NextGen DNA Sequencing Panel (75 genes) [NGS351]		AIFM1 (300169); ALDH5A1 (610045); ARX (300382); BCS1L (603647); C12orf65 (613541); COA5 (613920); COX10 (602125); COX14 (614478); COX15 (603646); COX6B1 (124089); CPT2 (600650); DLAT (608770); DLD (238331); ETHE1 (608451); FARS2 (611592); FASTKD2 (612322); FOXRED1 (613622); GCDH (608801); KCNQ2 (602235); LIAS (607031); LRPPRC (607544); MTFMT (611766); MUT (609058); NDUFA1 (300078); NDUFA10 (603835); NDUFA11 (612638); NDUFA12 (614530); NDUFA2 (602137); NDUFA9 (603834); NDUFAF1 (606934); NDUFAF2 (609653); NDUFAF3 (612911); NDUFAF4 (611776); NDUFAF5	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Leigh syndrome (256000); Leigh syndrome, X-linked (308930)	NextGen Sequencing	COMPANY OPERATION SUSPENDED	09-May-20
Leptin [FLEP]	1467		Draw blood in a plain, red-top tube(s). (Serum gel tube is acceptable.) Separate and freeze within one hour. Send 1 mL of serum frozen in a plastic vial. Store frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		ELISA		09-Oct-25
Leukemia, Philadelphia chromosome-positive, resistant to imatinib		ABL1 (189980)	Lavender Top (EDTA)	University Health Network (Toronto General Hospital)				

Leukemia/Lymphoma Immunophenotyping (PNH and ZAP-70 available) [2001]	1467		Na heparin tube. Store and send at RT. Send immediately overnight.	Hematologics, Inc. 3161 Elliot Ave. Suite 200, Seattle WA 98121 1800-860-0934		Flow cytometry		23-Jun-20
Leukodystrophy and Leukoencephalopathy Panel [NE2001]	964		Whole blood (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NGS		17-Sep-26
Leukotriene E4, 24 Hour, Urine [TLTE4]	1467		Preferred: 24-hour urine collection Container/Tube: Plastic, 5-mL tube (T465) Specimen Volume: 5 mL Collection Instructions: 1. Collect urine for 24 hours.No preservative. 2. Refrigerate specimen during collection, aliquot 5 mL of urine into plastic tube, and send specimen refrigerated. Store frozen (30 days).	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS/MS	Replaced by Mast Cell Mediators. Random test available RLTE4	28-Jul-26
Levetiracetam			Lavender Top; transport on ice	Hopital Ste. Justine				
LGI1 and Caspr 2 (VGKC antibodies)	54	LGI1 and Caspr2 (Voltage gated potassium chanel)	1st choice CSF; 2nd choice SERUM has reduced sensitivity	BC Neuroimmunology (bcneuro.ca)				02-Jun-26

LIMB GIRDLE MUSCULAR DYSTROPHY PANEL [10401]	911	ANO5 (608662); CAPN3 (114240); CAV3 (6012530; DES (125660); DNAJB6 (611332); DYSF (603009); FKRP (606596); GMPPB (615320); ISPD (614631); LIMS2 (607908); LMNA (150330); MYOT (604103); PNPLA2 (609059); SGCA (600119); SGCB (600900); SGCD (601411); SGCG (608896); SMCDH1 (614982); TCAP (604488); TNOP3 (610032); TOR1AIP1 (614512); TRAPPC11 (614138); TRIM32 (602290); TTN (188840)	Lavender Top (EDTA) [2 tubes]	Prevention Genetics (www.preventiongenetics.com)	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 5 (607155); Limb-Girdle Muscular Dystrophy, Type 2H (254110);Limb-Girdle Muscular Dystrophy, Type 2G (601954);Limb-Girdle Muscular Dystrophy, Type 2C (253700); Limb-Girdle Muscular Dystrophy, Type 2F (601287); Limb-Girdle Muscular Dystrophy, Type 2E (604286); Limb-Girdle Muscular Dystrophy, Type 2D (608099); Limb-Girdle Muscular Dystrophy, Type 2B (253601); Limb-Girdle Muscular Dystrophy, Type 2A (253600); Limb-Girdle Muscular Dystrophy, Type 2J (608807) ; Limb-Girdle Muscular Dystrophy, Type 2L	NextGen Sequencing (24 genes)	Thransfered to HSJ	10-Jul-23
LIMB GIRDLE MUSCULAR DYSTROPHY TYPE 2B AND MIYOSHI MYOPATHY VIA THE DYSF GENE [3123]	606	DYSF (603009)	Lavender Top (EDTA) [2 tubes]	Prevention Genetics (www.preventiongenetics.com)	Limb-Girdle Muscular Dystrophy, Type 2B (253601); Miyoshi Myopathy (254130), Myopathy, Distal, With Anterior Tibial Onset (606768)		Transfered to MUHC.	08-Nov-24

Lipid Metabolism Deficiency NGS Sequencing Panel (71 genes) + Del/Dup + mtDNA [NGS303]		ABCD1 (300371); ABCD2 (601081); ACAA1 (604054); ACAA2 (604770); ACACA (200350); ACACB (601557); ACAD10 (611181); ACAD11 (614288); ACAD9 (611103); ACADL (609576); ACADM (607008); ACADS (606885); ACADSB (600301); ACADVL (609575); ACAT1 (607809); ACAT2 (100678); ACLY (108728); ACOT1 (614313); ACOT12 (614315); ACOT2 (609972); ACOT4 (614314); ACOT6 (614267); ACOT7 (602587); ACOT8 (608123); ACOT9 (300862); ACOX1 (609751); ACOX2 (601641); ACOX3 (603402); ACP6 (611471); ACSBG1 (614362); ACSBG2 (614363); ACSF2 (610465); ACSF3 (614245); ACSL1	Lavender Top (EDTA)	C		NextGen Sequencing	COMPANY OPERATION SUSPENDED	09-May-20
Lipodystrophy		AGPAT2 (603100), AKT2 (164731), BSCL2 (606158), CAV1 (601047), CIDEC (612210) , LMNA (150330), PPARG (601487), PTRF (603198), TBC1D4 (612465), ZMPSTE24 (606480)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26

Liquid Biopsy ctDNA Targeted NGS Panel and Low Pass Whole Genome Sequencing (LP-WGS)	1395		STRECK Cell-free DNA BCT tubes ONLY. Ship Mon-Wed only. Store at RT. Stable for 7 days.	Clinical Molecular Diagnostics. Hosital for Sick Children.	Single mutation not performed.	NextGen Sequencing	RESTRICTED. Requires approval by Head of Send Out	2026/01/20
Lissencephaly NGS Panel		ACTB, ACTG1, ARX, DCX, FKRP, FKTN, LARGE, PAFAH1B1, POMGNT1, POMT1, POMT2, RELN, TUBA1A, VLDLR	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)				2025/03/26
Long QT/Brugada Syndrome NGS Panel	285	AKAP9 (604001), ANK2 (106410), CACNA1C (114205), CAV3 (601253), KCNE1 (176261), KCNE2 (603796), KCNH2 (152427), KCNJ2 (600681), KCNJ5 (600734), KCNQ1 (607542), SCN4B (608256), SCN5A (600163), SNTA1 (601017)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Long QT Syndrome (192500)	NextGen Sequencing	Performed at IdC	26-Mar-25
LRBA	1248		Na heparin tube. Store and send at RT. Send immediately overnight.	Alberta Precision Laboratories (Flow Cytometry - Calgary)		Flow cytometry		01-Jun-21
Low-density lipoprotein receptor-related protein 4 antibodies (LRP4 Ab)	18		Serum (Gold SST or Red Top). Store at -20°C	BC Neuroimmunology (bcneuro.ca)	For AcR and MUSK negative subjects	IFA		02-Jun-26
Lurasidone [2543SP]	1688		Red Top or Lavender Top only. Store and send serum/plasma frozen.	NMS Laboratories		LC-MS/MS		17-Mar-22
LYMPHEDEMA-DISTICHIASIS SYNDROME VIA THE FOXC2 GENE [8941]		FOXC2 [602402]	Lavender top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Lymphedema-Distichiasis Syndrome (153400)	NGS		10-Jul-23

Lysosomal Disease (NextGen Sequencing Panel and Copy Number Analysis; 72 Genes) [NGS313]	474	ADAMTSL2 (612277), AGA (613228), ANTXR2 (608041), ARSA (607574), ARSB (611542), ASAH1 (613468), ATP13A2 (610513), ATP7A (300011), ATP7B (606882), CERS1 (606919), CLN3 (607042), CLN5 (608102), CLN6 (606725), CLN8 (607837), COL11A2 (120290), COL2A1 (120140), CTNS (606272), CTSA (613111), CTSC (602365), CTSD (116840), CTSF (603539), CTSK (601105), DHCR7 (602858), DNAJC5 (611203), DYM (607461), FUCA1 (612280), GAA (606800), GALC (606890), GALNS (612222), GBA (606463), GLA (300644), GLB1 (611458), GM2A (613109), GNE	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		Next Generation DNA Sequencing	COMPANY OPERATION SUSPENDED	09-May-20
Lysozyme (Muramidase), Plasma [MURA]	1467		Lavender Top (EDTA)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Spectrophotometric		15-Jan-24
Macroprolactin			Gold SST. Centrifuge and store serum at 4°C.	Verdun Hosipital		1X per week		
Malignant Hyperthermia Suscpetibility Panel [03285]	632	CACNA1S (114208), RYR1 (180901), STAC3		Invitae (www.invitae.com)		NextGen Sequencing	SUSPENDED	10-Jul-23

Mannose-Binding Lectin Deficiency NGS Test		MBL2 (154545)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Mannose-binding protein deficiency (614372)	Next Generation DNA Sequencing		2025/03/26
MARFAN SYNDROME AND RELATED AORTOPATHIES PANEL [1212]	279		Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		NextGen Sequencing	Available at Inst de Cardiologie	10/Jul/23
Marfan Syndrome and Thoracic Aortic Aneurysm and Dissection NGS Panel	279	ACTA2, CBS, COL3A1, COL5A1, COL5A2, FBN1, FBN2, FLNA, MED12, MYH11, MYLK, NOTCH1, PLOD1, PRKG1, SKI, SLC2A10, SMAD3, SMAD4, TGFB2, TGFB3, TGFBR1, TGFBR2 (22 genes)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Marfan syndrome, type I (154700)	NextGen Sequencing	Available at Inst de Cardiologie	17-Feb-19
MARINESCO-SJOGREN SYNDROME VIA THE SIL1 GENE [11667]		SIL1 (608005)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Marinesco-Sjogren Syndrome (248800)	NGS		10/Jul/23
Mast Cell Mediators, 24 Hour, Urine [MCM24]	1467		24h urine collection. No preservatives. Stable for 28d at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS/MS & enzymatic assay	Replaces separate assays for N-methylhistamine dinor-prostaglandin F2a, & leukotriene E4.	28/Jul/26
Meckel-Gruber syndrome Sequencing Panel		CC2D2A (612013); CEP290 (610142); MKS (609883); RPGRIP1L (610937); TCTN (613846)2; TMEM67 (609884); TMEM216 (613877)	Lavender Top (EDTA)	University of Chicago Genetic Services Laboratories (dnatesting.uchicago.edu)	Meckel Syndrome, Type 8 (613885); Meckel Syndrome, Type 6 (312284); Meckel Syndrome, Type1 (249000); Meckel Syndrome, Type 4 (611134); Meckel Syndrome, Type 3 (607361); Meckel Syndrome, Type 5 (611561); Meckel syndrome 2 (603194)	Sanger sequencing	TO BE CONFIRMED	

MECP2 Analysis		MECP2 (300005)	Lavender Top (EDTA) 2-5 cc	Alberta Children's hospital http://www.medicalgenetics.ca/molecular.html	Rett's disorder (312750)	Sanger sequencing		04-May-17
Medullary Cystic Kidney Disease type 2 and Familial Juvenile Hyperuricemic Nephropathy type 1 via the UMOD Gene [8209]		UMOD (191845)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Familial Juvenile Hyperuricemic Nephropathy (162000); Medullary Cystic Kidney Disease 2(603860)	NGS		10-Jul-23
Metformin, Plasma [FMETN]	1982		Lavender Top only. Store at 4°C. Stable 30 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		HPLC-TMS		18-Apr-24

Microcephaly NGS Panel	350	AKT3, ANKLE2, ARFGEF2, ASPM, ATR, ATRIP, BUB1B, CASK, CDK5RAP2, CDK6, CENPE, CENPF, CENPJ, CEP135, CEP152, CEP63, CKAP2L, COX7B, CRIPT, DIAPH1, DNM1L, EFTUD2, HMGB3, IER3IP1, KATNB1, KIF11, KNL1, LIG4, MCPH1, MED17, MFSD2A, MIR17HG, MRE11, MSMO1, MYCN, NBN, NDE1, NHEJ1, NIN, NR2E1, PAFAH1B1, PCLO, PCNT, PHC1, PLEKHG2, PLK4, PNKP, POMT1, PPP1R15B, PQBP1, QARS, RARS2, RBBP8, RTTN, SASS6, SLC1A4, SLC25A19, SLC9A6, SPATA5, STAMBP, STIL, THOC6, TRMT10A, TSEN2, TSEN34, TSEN54, TUBB2B, TUBGCP4, TUBGCP6, VRK1, WDR62, WDR73, XRCC4, ZER2, ZNF335	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
Migraine Panel [NE1201]	581		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		Next-Generation sequencing		21-Aug-20

Minimal Residual Disease Testing (MRD)	1084		Na heparin tube. Store and send at RT. Send immediately overnight.	Toronto General Hospital		Flow cytometry	Prices vary: AML $503; B-ALL $480.01; CLL $305.61; AML (13,4,6) 491.16+530.26+562.02+509.16= **2096.60**; B-ALL $522.18; T-ALL(1+2) 558.61+494.08=**1052.69** $542.87; MM $590.42. Reporting fee $425?	13-Aug-26
Minimal Residual Disease Testing (MRD) - T -ALL	1084		Na heparin tube. Store and send at RT. Send immediately overnight.	Toronto General Hospital	MRD. EOC Disease assessment	Flow cytometry	T-ALL MRD(1) 558.61+ T-ALL MRD(2) 494.08=**1052.69**	15-Sep-26
Minimal Residual Disease Testing (MRD) - AML	1084		Na heparin tube. Store and send at RT. Send immediately overnight.	Toronto General Hospital	Immunopheotyping and Baseline MRD. AML Surveillance.	Flow cytometry	MRD AML (1) 491.16+ MRD AML (2) 498.67 + MRD AML (3) 530.26+MRD AML (4) 562.02+ MRD AML (5) 210.45 + MRD AML (6) 509.16=$**2801.72**	15-Sep-26
Minimal Residual Disease Testing (MRD) PreB-ALL	1084		Na heparin tube. Store and send at RT. Send immediately overnight.	Johns Hopkins Medical Laboratories		Flow cytometry	Price can vary by number of markers; 9-15 markers quoted here	28-Nov-23
Minimal Residual Disease Testing (MRD) T cell [2002]	1084		Na heparin tube. Store and send at RT. Send immediately overnight.	Hematologics, Inc. 3161 Elliot Ave. Suite 200, Seattle WA 98121 1800-860-0934		Flow cytometry		18-Jun-26
Minimal Residual Disease Testing (MRD) T-ALL	1084		Na heparin tube. Store and send at RT. Send immediately overnight.	Johns Hopkins Medical Laboratories		Flow cytometry	Price can vary by number of markers; 9-15 markers quoted here	14-Nov-23
Measurable Residual Disease, T Cell ALL [TCELLMRD]	1084		EDTA Whole Blood. Keeep at room temperature. Store samples at 4°C if time exceeds 30 minutes	Flow Cytometry Laboratory. London Health Sciences Centre.	For Friday samples email Ben Hedley with ID information & location where sample is being sent.	Flow cytometry		17-Jun-26
Minimal Residual Disease Flow, Peripheral Blood [MRDPB]	1084		EDTA Whole Blood. Keeep at room temperature. Store samples at 4°C if time exceeds 30 minutes	Flow Cytometry Laboratory. London Health Sciences Centre.	For Friday samples email Ben Hedley with ID information & location where sample is being sent.	Flow cytometry		17-Jun-26

Minimal Residual Disease Flow, Bone Marrow [FMRDBM]	1084		EDTA Whole Blood. Keeep at room temperature. Store samples at 4°C if time exceeds 30 minutes	Flow Cytometry Laboratory. London Health Sciences Centre.	For Friday samples email Ben Hedley with ID information & location where sample is being sent.	Flow cytometry	B-ALL 1396.04 CAD	17-Jun-26
Mitochondrial Genome Sequencing [MOL021]	518	The human mitochondrial genome is 16569 base pairs in length and encodes 37 genes including 2 ribosomal RNA genes, 22 transfer RNA genes, and 13 protein-coding genes. Our mitochondrial DNA (mtDNA) panel includes complete sequencing of the following genes (MIM#): MTRNR1 (561000), MTRNR2 (561010); MTTA (590000); MTTR (590005); MTTN (590010); MTTD (590015); MTTC (590020); MTTE (590025); MTTQ (590030); MTTG (590035); MTTH (590040); MTTI (590045); MTTL1 (590050); MTTL2 (590055); MTTK (590060); MTTM (590065); MTTF (590070); MTTP (590075); MTTS1 (590080); MTTS2 (590085); MTTT (590090); MTTW (590095); MTTY (590100); MTTV (590105); MTND1 (516000); MTND2 (516001); MTND3 (516002); MTND4 (516003); MTND4L (516004); MTND5 (516005); MTND6 (516006); MYCYB (516020); MTCO1	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Mitochondrial DNA Deletion Syndromes Mitochondrial DNA Depletion Syndrome Mitochondrial DNA Depletion Syndrome Mitochondrial DNA Depletion Syndrome, Encephalomyopathic Form Mitochondrial DNA Depletion Syndrome, Encephalomyopathic Form Mitochondrial DNA Depletion Syndrome, Hepatocerebral Form Mitochondrial DNA Depletion Syndrome, MNGIE Form Mitochondrial DNA Depletion Syndrome, Myopathic Form mtDNA Deletion Syndromes	NextGen Sequencing	COMPANY OPERATION SUSPENDED. Available at HSJ	09-May-20

Mitochondrial Genome Sequencing + Deletion Analysis [MOL189]	518	MTRNR2 (561010); MTTA (590000); MTTR (590005); MTTN (590010); MTTD (590015); MTTC (590020); MTTE (590025); MTTQ (590030); MTTG (590035); MTTH (590040); MTTI (590045); MTTL1 (590050); MTTL2 (590055); MTTK (590060); MTTM (590065); MTTF (590070); MTTP (590075); MTTS1 (590080); MTTS2 (590085); MTTT (590090); MTTW (590095); MTTY (590100); MTTV (590105); MTND1 (516000); MTND2 (516001); MTND3 (516002); MTND4 (516003); MTND4L (516004); MTND5 (516005); MTND6 (516006); MYCYB (516020); MTCO1	Blood | Fibroblasts | Muscle | Extracted DNA | Buccal Cells	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Leber hereditary optic neuropathy (LHON); Neuropath, ataxia, and retinitis pigmentosa (NARP); Myoclonic epilepsy associated with ragged-red fibers (MERRF); Mitochondrial myopathy, encephalopathy, lactic acidosis, and stroke-like episodes (MELAS)	Deletion; Capillary DNA Sequencing	COMPANY OPERATION SUSPENDED. Available at HSJ	14-May-20

Mitochondrial Genome Sequencing + Deletion Analysis + Depletion Testing (Leukocyte) [MOL232]	518	The human mitochondrial genome is 16569 base pairs in length and encodes 37 genes including 2 ribosomal RNA genes, 22 transfer RNA genes, and 13 protein-coding genes. Our mitochondrial DNA (mtDNA) panel includes complete sequencing of the following genes (MIM#): MTRNR1 (561000), MTRNR2 (561010); MTTA (590000); MTTR (590005); MTTN (590010); MTTD (590015); MTTC (590020); MTTE (590025); MTTQ (590030); MTTG (590035); MTTH (590040); MTTI (590045); MTTL1 (590050); MTTL2 (590055); MTTK (590060); MTTM (590065); MTTF (590070); MTTP (590075); MTTS1 (590080); MTTS2 (590085); MTTT (590090); MTTW (590095); MTTY (590100); MTTV (590105); MTND1 (516000); MTND2 (516001); MTND3 (516002); MTND4 (516003); MTND4L (516004); MTND5 (516005); MTND6 (516006); MYCYB (516020); MTCO1	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Mitochondrial diseases including: Leber hereditary optic neuropathy (LHON); Neuropath, ataxia, and retinitis pigmentosa (NARP); Myoclonic epilepsy associated with ragged-red fibers (MERRF); Mitochondrial myopathy, encephalopathy, lactic acidosis, and stroke-like episodes (MELAS)	Deletion; Real-time Quantitative PCR analysis; Sequencing	COMPANY OPERATION SUSPENDED. Available at HSJ	14-May-20

Mitochondrial Genome Sequencing + Deletion Analysis + Depletion Testing (Muscle) [MOL340]	518	The human mitochondrial genome is 16569 base pairs in length and encodes 37 genes including 2 ribosomal RNA genes, 22 transfer RNA genes, and 13 protein-coding genes. Our mitochondrial DNA (mtDNA) panel includes complete sequencing of the following genes (MIM#): MTRNR1 (561000), MTRNR2 (561010); MTTA (590000); MTTR (590005); MTTN (590010); MTTD (590015); MTTC (590020); MTTE (590025); MTTQ (590030); MTTG (590035); MTTH (590040); MTTI (590045); MTTL1 (590050); MTTL2 (590055); MTTK (590060); MTTM (590065); MTTF (590070); MTTP (590075); MTTS1 (590080); MTTS2 (590085); MTTT (590090); MTTW (590095); MTTY (590100); MTTV (590105); MTND1 (516000); MTND2 (516001); MTND3 (516002); MTND4 (516003); MTND4L (516004); MTND5 (516005); MTND6 (516006); MYCYB (516020); MTCO1	50-75 milligrams muscle snap frozen in liquid nitrogen and maintained at -80°Celsius or below. (2) DNA extracted from muscle	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Mitochondrial diseases including: Leber hereditary optic neuropathy (LHON) Neuropath, ataxia, and retinitis pigmentosa (NARP) Myoclonic epilepsy associated with ragged-red fibers (MERRF) Mitochondrial myopathy, encephalopathy, lactic acidosis, and stroke-like episodes (MELAS)	Polymerase Chain Reaction (PCR) followed by DNA sequencing analysis; Polymerase Chain Reaction (PCR) followed by Restriction Endonuclease digestion and gel separation; Real-time Quantitative PCR analysis	COMPANY OPERATION SUSPENDED. Available at HSJ	14-May-20
Mitochondrial Respiratory Chain Enzyme Analysis (ETC)	1269		Skin Fibroblasts [3210]; Skeletal Muscle Biopsy [3200]; 150 mg; Store at -80°C.	Baylor Genetics. 2450 HOLCOMBE BLVD. GRAND BLVD. RECEIVING DOCK HOUSTON, TX 77021-2024		Spectrophotometric		03-Oct-23

MLPA (screen for deletions of CFHR1-CFHR3)		CFHR1 (134371); CFHR3 (605336)	Lavender Top (EDTA)	Molecular Otolaryngology & Renal Research Laboratory, U. of Iowa Carver College of Medicine (www.medicine.uiowa.edu/morl)	Hemolytic uremic syndrome, atypical, susceptibility to (235400)	MLPA		01-Mar-25
MODY Neonatal Diabetes NGS Panel	481	ABCC8, AKT2, BLK, CEL, CISD2, CP, EIF2AK3, FOXP3, GATA6, GCK, GLIS3, GLUD1, HADH, HNF1A, HNF1B, HNF4A, IER3IP1, INS, INSR, KCNJ11, KLF11, NEUROD1, NEUROG3, PAX4, PDX1, PTF1A, RFX6, SLC2A2, WFS1, ZFP57 (30 genes)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
Mold Mix 1	1467		Serum (Gold SST or Red Top)	In-Common Laboratories				12-Mar-20
Mold Mix 2	1467		Serum (Gold SST or Red Top)	In-Common Laboratories				12-Mar-20
Molecular Testing for Lissencephaly		DCX (300121)	Lavender Top (EDTA)	University of Chicago Genetic Services Laboratories (dnatesting.uchicago.edu)	Lissencephaly, X-linked (300067);Subcortical laminal heteropia, X-link (300067); testing for a known mutation	Sanger sequencing	TO BE CONFIRMED	
Monocyte Type I and Type II Interferon (IFN) Signature Quantitation by Flow Cytometry [T1A2MP]	1467		Whole Blood (EDTA or Na heparin). Keep at RT, Stable for 72 h at RT.	Nationwide Children's Hospital. Laboratory Services Room C1955. Diagnostic immunology Lab, Colombus, OH. 1800-934-6575			Send Out must be advised the day before sending the sample. Not accepted after 3 pm Thursday.	06-Feb-25

Monogenic Autoimmunity Panel [08150]	817	ACP5 ADA2 ADAR AICDA AIRE AP3B1 BLOC1S6 BTKCASP10 CASP8 CD27 CD40LG CR2 CTLA4 CYBA CYBBDOCK8 FADD FAS FASLG FOXP3 ICOS IFIH1 IL10IL10RA IL10RB IL21 IL21R IL2RA ITCH ITK LRBALYST MAGT1 NCF2 NCF4 NFAT5 NFKB2 NFKBIA ORAI1PIK3CD PIK3R1 PLCG2 PNP PRF1 PRKCD RAB27A RAC2RFX5 RFXANK RFXAP RMRP RNASEH2A RNASEH2B RNASEH2C SAMHD1SH2D1A SLC7A7 STAT1 STAT3 STAT5B STIM1 STX11 STXBP2TBX1 TMEM173 TNFRSF13B TNFRSF13C TNFSF12 TPP2 TREX1 UNC13DUNG WAS XIAP	Lavender Top (EDTA) [2 tubes]	Invitae (www.invitae.com)		NextGen Sequencing		10-Jul-23

Monogenic Inflammatory Bowel Disease Panel (Invitae) [08122]	1151	ADA, ADAM17, AICDA, BTK, CD3G, CD40LG, CTLA4, CYBA, CYBB, DCLRE1C, DKC1, DOCK8, FOXP3, G6PC3, ICOS, IL10, IL10RA, IL10RB, IL21, IL2RA, IL2RG, ITGB2, LIG4, LRBA, MEFV, MVK, NCF2, NCF4, NFAT5, NLRC4, PIK3CD, PIK3R1, PLCG2, RAG1, RAG2, RTEL1, SH2D1A, SLC37A4, STAT1, STAT3, STIM1, STXBP2, TTC7A, WAS, XIAP, ZAP70	Lavender Top (EDTA)	Invitae (www.invitae.com)	XIAP X-linked lymphoproliferative syndrome 2; ZAP70 Severe combined immunodeficiency, Omenn syndrome; WAS Wiskott–Aldrich syndrome; TTC7A Gastrointestinal defects and immunodeficiency (GIDID) syndrome; STXBP2 Familial hemophagocytic lymphohistiocytosis type 5; STIM1 STIM1 deficiency; STAT3 IPEX-like syndrome; STAT1 IPEX-like syndrome; SLC37A4 Glycogen storage disease type Ib; SH2D1A X-linked lymphoproliferative syndrome 1; RTEL1 Dyskeratosis congenita; RAG2 Severe combined immunodeficiency, Omenn syndrome; RAG1 Severe combined immunodeficiency, Omenn syndrome; PLCG2 Familial cold autoinflammatory syndrome; PIK3R1	Next-Generation sequencing	Replaced by Panel virtuel ciblé de gènes associés à la maladie inflammatoire de l'intestin très précoce (VEOIBD) at HSJ	10-Jul-23
Monogenic Obesity Panel [KI1701]	485		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		Next Generation DNA Sequencing		19-Aug-25
MTHFR 677C>T	9999						COMT and other single genes have no utility for instances of Hcy eleavtion. Refused.	02-Dec-24

Muscle Specific Tyrosine Kinase Antibodies (MuSK Ab) [P91022]	43		Gold SST. SERUM ONLY. Centrifuge and transfer serum to plastic container. Store at -20°C. Transport frozen.	BC Neuroimmunology (bcneuro.ca)	myasthenia gravis	SPR	NOTE: test sensitivity is ~100% but has low specificity.. Orderable only by Neurology due to low specificity as SECOND LINE test.	02-Jun-26
Myelin Basic Protein [663]	1467		CSF. Store frozen. Specimen Stability : Room temperature: 7 days. Refrigerated: 14 days. Frozen: 21 days	Quest Laboratories	The pesence of myelin basic protein in the spinal fluid is supportive evidence for the diagnosis of multiple sclerosis and other demyelinating diseases, although it is a non-specific finding and present in other causes of damage to CNS myelin.	RIA	NOT AVAILABLE	23-Jul-24
Myelin-Associated Glycoprotein (MAG) IgM Antibodies, Serum [AMAGS]	40		Gold SST. Store at -20°C.	In-Common Laboratories		ELSIA	Replaces Mitogen MAG testing	09-Mar-23
Myeloid NGS Screen	1395		Lavender Top (EDTA)	Molecular Genetics Laboratory - LHSC		Next Generation DNA Sequencing	$890 full panel; ≤2 gene fusions $350 each if ordered separately. Transfered to HMR.	28-Oct-21
Myopathy-Rhabdomyolysis		ACAD9, ACADL, ACADM, ACADVL, AGL, C10ORF2, CPT1B, CPT2, GAA, GYS1, HADHA, HADHB, OPA1, OPA3, PFKM, PGAM2, PGM1, PHKA1, POLG, POLG2, RRM2B, SUCLA2, TK2, TYMP	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing	Transfered to HSJ after Nov 30, 2025	26-Mar-25

Myotonia Congenita via the CLCN1 Gene [11179]	607	CLCN1 (118425)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Congenital Myotonia, Autosomal Dominant Form (160800), Myotonia Congenita Autosomal Recessive (255700)	NGS		10-Jul-23
Myotonic Dystrophy 2	607	CNBP (ZNF9) (116955)	Lavender Top (EDTA)	Molecular Genetics Laboratory - BC Children's Hospital & BC Women's Hospital		Repeat-primed PCR (QP-PCR)		17-Dec-25
Myotonic Dystrophy Type I (160900)	607	DMPK (605337)	Lavender Top (EDTA)	Childern's Hospital of Eastern Ontario			Available at CHUQ: Dystrophie myotonique type 1 (Steinert)	09-Jan-17
N-Methylhistamine, 24 Hour, Urine [NMH24]	117		Collection Instructions: Collect 24-hour urine with no preservatives. Total volume required. Record on both the specimen container and the request form. Urine Preservative Collection Options: Note: The addition of preservative or application of temperature controls must occur within 4 hours of completion of the collection: 6N HCl, 50% Acetic Acid, Na(2)CO(3), Toluene, 6N HNO(3), Boric Acid, Thymol. Store frozen. **Stable 14 days.**	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	mastocytosis	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)	Replaced by Mast Cell Mediators	28-Jul-26

Tetrahydrobiopterin/Neopterin (CSF) [FFTEN]	1224	BH4, Neopterine	Collection tube requirement : Call laboratory to obtain appropriate sample collection containers. Each sample collection set consists of 5 numbered centrifuge tubes in a small plastic bag. Tube #3 contains antioxidants necessary to protect the sample from oxidation. One set of tubes is required per patient. The total CSF volume required is 3.5 milliliters. Collection of sample : CSF should be collected directly from the tap needle: Collect from the first drop in to the containers in numerical order. Fill each tube to the marked line (0.5 milliliters in tubes 1, 2, & 5 – 1.0 ml in tubes 3 & 4). Attach patient identifiers to each tube without covering the tube number. If there is no blood contamination, place the tubes into a biohazard bag and place on ice (or dry ice if available) at the bedside. Transfer the samples to a -80°C freezer ASAP. Ship on dry ice. If the sample is blood contaminated, the tubes should immediately be centrifuged (prior to	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Dystonia, dopamine responsive | DRD | GCH1 | Dystonia, dopa responsive, due to sepiapterin reductase deficiency | SPR | Hyperphenylalaninemia, BH4 deficient, B | HPABH4 | Hyperphenylalaninemia, BH4 deficient, A | HPABHA | PTS | Hyperphenylalaninemia, BH4 deficient, C | QDPR | HPABH4C | Hyperphenylalaninemia, BH4 deficient, D | HPABH4D | PCBD1			08-Jun-20
Neopterin Plasma [9050105]	1224	Neopterin	EDTA plasma. Stable for 24 h at 4°C. Store at -20°C	Cinncinatti Children's Hospital (Diagnostic Immunology Laboratory). CBDIL@cchmc.org		ELISA		25-Jun-26
Neopterin CSF [5360493]	1224	Neopterin	CSF. Stable for 48 h at 4°C. Store at -20°C	Cinncinatti Children's Hospital (Diagnostic Immunology Laboratory). CBDIL@cchmc.org		ELISA		25-Jun-26

Nephrotic Syndrome (NS)/Focal Segmental Glomerulosclerosis (FSGS) Panel [10417]	100	ACTN4 604638 ANLN 616027 ARHGAP24 610586 ARHGDIA 601925 CD2AP 604241 COL4A3 120070 COL4A4 120131 COL4A5 303630 COL4A6 303631 COQ2 609825 COQ6 614647 COQ8B 615567 CRB2 609720 CUBN 602997 DGKE 601440 EMP2 602334 FAT1 600976 INF2 610982 ITGA3 605025 ITGB4 147557 KANK1 607704 KANK2 614610 KANK4 614612 LAGE3 300060 LAMA5 601033 LAMB2 150325 LMX1B 602575 MAGI2 606382 MYO1E 601479 NPHS1 602716 NPHS2 604766 NUP107 607617 NUP205 614352	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Alport Syndrome, Autosomal Dominant AD 104200 Alport Syndrome, Autosomal Recessive AR 203780 Alport Syndrome, X-Linked Recessive XL 301050 Cerebral Palsy, Spastic Quadriplegic, 2 AR 612900 Coenzyme Q10 Deficiency AR 607426 Coenzyme Q10 deficiency, primary, 3 AR 614652 Coenzyme Q10 deficiency, primary, 6 AR 614650 Deafness, X-linked 6 XL 300914 Epidermolysis Bullosa With Pyloric Atresia AR 226730 Epilepsy, Progressive Myoclonic 4, With Or Without Renal	Next Generation DNA Sequencing		10-Jul-23

Neurofibromatosis (NextGen Sequencing Panel and Copy Number Analysis; 21 Genes) [NGS335]	776	ATM (607585), BRAF (164757), CBL (165360), HRAS (190020), KRAS (190070), MAP2K1 (176872), NF1 (613113), NF2 (607379), NRAS (164790), PTEN (601728), PTPN11 (176876), RAF1 (164760), RIT1 (609591), SDHAF2 (613019), SDHB (185470), SDHC (602413), SDHD (602690), SH3BP2 (602104), SHOC2 (602775), SOS1 (182530), SPRED1 (609291).	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		Next Generation DNA Sequencing	COMPANY OPERATION SUSPENDED	09-May-20
Neurofilament (pNf-H)	1467		CSF	Washington University Neuromuscular Laboratory		ELISA		02-Oct-23
Neurofilament Light Chain (NfL)	1467		EDTA plasma	BC Neuroimmunology (bcneuro.ca)		Lumipulse	Replaces In Common Laboratories	05-Jan-26
Neurofilament Light Chain (NfL), Serum/Plasma [NFLRO S]	1467		Serum, SST or Red Top or Na heparin. Stable at -20°C.	In Common Laboratories (EORLA)	EORLA requisition	Roche Elecsys	Replaced by BC Neuroimmunology	20-Oct-25

Neutropenia NGS Panel	836	AP3B1, CSF3R, CXCR4, ELANE, G6PC3, GATA1, GATA2, GFI1, HAX1, LAMTOR2, LYST, RAB27A, RAC2, SBDS, SLC37A4, TAZ, USB1, VPS13B, VPS45, WAS, WIPF1	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Cyclical neutropenia (162800), Severe congenital neutropenia autosomal dominant (202700), Severe congenital neutropenia X-linked (300299), Severe congenital neutropenia 4, autosomal recessive (612541), Severe congenital neutropenia 2, autosomal dominant (613107), Severe congenital neutropenia 3, autosomal recessive (610738)	NextGen Sequencing	At HSJ: Panel virtuel ciblé de gènes associés à la neutropénie congénitale analysé à partir de l'exome IMPORTANT : cette analyse est réservée aux cas pédiatriques (moins de 18 ans)	2025/03/26
Neutrophil Antibody, Flow Cytometry [1606]	1572		Serum. Red Top (only). Room temperature: 7 days Refrigerated: 14 days Frozen: 30 days	Quest Diagnostics				06-Jul-20
NF-1-NG	776	NF-1	Lavender Top (EDTA)	UAB Medical Genomics Laboratory (www.uab.edu/medicine/genetics/medical-genomics-laboratory)		NGS and del/dupl		10-Jul-23
Niemann-Pick Disease Type C Sequencing Panel [3425]	468	NPC1 (607623); NPC2 (601015)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Niemann-Pick Disease Type C1 (257220)	Next Generation DNA Sequencing		Juy 10, 2023
Noonan Syndrome (NextGen Sequencing Panel and Copy Number Analysis; 10 Genes) [NGS414]	778	BRAF KRAS LZTR1 MAP2K1 NRAS PTPN11 RAF1 RIT1 SOS1 SOS2	Lavender top (EDTA) [2 tubes]	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED. Transfered to HSJ on Nov 30, 2025	09-May-20

NOTCH3-CADASIL (125310)	65	NOTCH3 (600276)	Lavender Top (EDTA)	London Laboratories Service Group		Sanger sequencing; 33 coding exons of NOTCH3+ 20nt intronic sequence around each exon	To change to NGS with exon copy number in Oct 2015	
NPM1 MRD	1395	NPM1 (164040)	Lavender Top (EDTA). Bone marrow. Stable 24-48 h at RT after draw. Do not freeze. Send Out must be informed in advance. Sample must arrive in AM	Dept of Clinical Laboratory Genetics. Genome Diagnostics. Toronto General Hospital.		RNA based	Reminder: Mark Urgent on Requisition	24-Jan-24
NPM1 Quantitative RNA PCR	1395	NPM1 (164040)	Lavender Top (EDTA). Bone marrow. Stable 24-48 h at RT after draw. Do not freeze. Send Out must be informed in advance. Sample must arrive in AM	Molecular Genetics Laboratory. Univerisity of North Carolina Hospitals. Http://labs.unchealthcare.org.		RNA based	Reminder: Mark Urgent on Requisition	17-Jan-23

Nuclear-Mito NGS Panel	518	AAAS AARS2 AASS ABAT ABCB6 ABCB7 ABCC8 ABCC9 ABCD1 ABCD3 ACACA ACACB ACAD8 ACAD9 ACADL ACADM ACADS ACADSB ACADVL ACAT1 ACAT2 ACHE ACLY ACO2 ACSF3 ACSL4 ACSL5 ACSM3 ADSL AFG3L2 AGK AGPS AGXT AGXT2 AIFM1 AK2 AKAP10 AKR7A2 AKT1 AKT2 ALAS2 ALDH18A1 ALDH2 ALDH3A2 ALDH4A1 ALDH5A1 ALDH6A1 ALDH7A1 AMACR AMT ANK2 ANKRD26 APTX ARMS2 AS3MT ASS1 ATIC ATP10D ATP5E ATP5SL ATP7B ATP8B1 ATPAF2 ATXN7 AUH BAX BCAT1 BCAT2 BCKDHA BCKDHB BCL2 BCS1L BOLA3 C10orf2 C12orf65 CACNA1A CACNA1S CACNA2D1 CASP8 CDC42BPB CDKL5	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing	Transfer to HSJ on Nov 30	2025/03/26
Oculopharyngeal Muscular Dystrophy	613	PABPN1 (602279)	Lavender Top	Molecular Genetics Laboratory - BC Children's Hospital & BC Women's Hospital		repeat sizing		25-Jun-20
Oncotype DX			FFPE	Genomic Health		gene expression	Refer to Pathology	
Orexin-A/Hypocretin-1, Spinal fluid [ORXNA]	1691		CSF. Store frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		RIA		12-Mar-24

Osteogenesis imperfecta NGS panel - Dominant [5099]	533	ALPL, COL1A1, COL1A2, IFITM5, PLS3	Lavender Top (EDTA)	Connective Tissue Gene Test (www.ctgt.net)		NGS with del/dup analysis		25-Oct-19
Osteogenesis imperfecta NGS panel - Dominant & Recessive [5102]	533	ALPL, BMP1, COL1A1, COL1A2, CREB3L1, CRTAP, FKBP10, IFITM5, LEPRE1, LRP5, PLOD2, PLS3, PPIB, SERPINF1, SERPINH1, SP7, TMEM38B, WNT1	Lavender Top (EDTA)	Connective Tissue Gene Test (www.ctgt.net)		NGS with del/dup analysis		25-Oct-19
Osteogenesis imperfecta NGS panel - Recessive [5105]	533	ALPL, BMP1, CREB3L1, CRTAP, FKBP10, LEPRE1, LPR5, PLOD2, PPIB, SERPINF1, SERPINH1, SP7, TMEM38B, WNT1	Lavender Top (EDTA)	Connective Tissue Gene Test (www.ctgt.net)		NGS with del/dup analysis		25-Oct-19
Osteogenesis Imperfecta Panel [MA3001]	533	33 genes	Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NGS		23-Jun-26
Ovarian Antibody Screen with Reflex to Titer, IFA [FOVAS]	1467		Serum (Gold SST or Red Top). Refrigerated (preferred) 14 days. Frozen 30 days. Ambient 7 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		IFA		08-Nov-23
Ovarian Dysgenesis via the FSHR gene [11871]		FSHR (136435)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Ovarian dysgenesis 1 (233300)			10-Jul-23
Overgrowth and Macrocephaly Syndromes Panel [04501]	968	AKT2 AKT3 CDKN1C CUL4B DIS3L2 DNMT3A EZH2 GLI3 GPC3 KPTN MED12 MTOR NF1 NFIX NPR2 NSD1 PHF6 PIK3R2 PTEN SETD2 SPRED1	Lavender top (EDTA) [2 tubes]	Invitae (www.invitae.com)			SUSPENDED	10-Jul-23

Overgrowth and Macrocephaly Syndromes Panel [3449]	968	ABCC9 AKT1 AKT2 AKT3 ASPABRWD3 CCND2 CDKN1C CHD8 CUL4B DIS3L2 DNMT3A EED EZH2 GFAP GLI3 GPC3 HEPACAM HERC1 HUWE1 KIF7 KPTN MED12 MLC1 MPDZ MTOR NFIA NFIXNPR2 NSD1 OFD1 PDGFRB PHF6 PIK3CA PIK3R2 PPP2R5B PPP2R5C PPP2R5D PTCH1 PTEN RAB39B RNF125 RNF135 SETD2 STRADA SUZ12 TBC1D7 TMEM94 UPF3BZBTB20	Lavender top (EDTA) [2 tubes]	Prevention Genetics (www.preventiongenetics.com)				08-Oct-26
Oxalate, Plasma [POXA1]	1176		Green Top; sample must be acidified. If not freeze plasma ASAP. Stable 30 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				11-May-22

Oxidative Phosphorylation (OXPHOS) Defects NGS Screening Panel (232 genes) + Del/Dup + mtDNA [NGS306]		AARS2 (612035); ABCB10 (605454); ABCB7 (300135); ABCB8 (605464); ABHD5 (604780); ACADS (606885); ADCK3 (606980); AFG3L2 (604581); AGK (610345); AIFM1 (300169); AK2 (103020); AK3 (609290); APTX (606350); ARMS2 (611313); ARX (300382); ATAD3A (612316); ATAD3B (612317); ATP5A1 (164360); ATP5B (102910); ATP5C1 (108729); ATP5D (603150); ATP5E (606153); ATP5F1 (603270); ATP5G1 (603192); ATP5G2 (603193); ATP5G3 (602736); ATP5H (); ATP5I (601519); ATP5J (603152); ATP5O (600828); ATP5S (); ATP7B (606882); ATPAF1 (608917); ATPAF2 (608918); BCS1L (603647); POLA3 (613183);	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED	09-May-20
Oxysterols, Plasma [OXNP]	1579		Lavender Top (EDTA). Store plasma frozen. Prolonged storage at RT can lead to autooxidation (FP).	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Niemann-Pick types A, B, and C disease	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)		28-Jul-23
Paliperidone (Invecta) [91895]			Red Top (only)	Quest Diagnostics Nichols Institute - California, Molecular Genetics Laboratory	9-hydroxyrespiridone	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)		19-Feb-18

Pancreastatin			Collect 10 mL EDTA plasma in special tube containing the Z-tube and separate as soon as possible. Freeze plasma immediately after separation. Special Z-tube is available from Inter Science Institute (ISI). Minimum specimen size is 1 ml. Ship frozen.	InterScience Institute (www.interscienceinstitute.com)		radioimmunoassay		TBU
Pancreatic Cancer Panel [01261]	1284		Lavender Top (EDTA)	Invitae (www.invitae.com)		NGS		10-Jul-23
Pancreatic Polypeptide, Plasma [HPP]	1284		Plasma EDTA. Place on ice immediately fasting. Freeze immediately. Stable 90 d at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				23-Jul-23
PANEL-MYOSITE			Gold SST. Centrifuge and transfer serum to plastic container. Store at -20°C. Transport frozen.	CHUM	Mi-2, Ku, Jo-1, PL-7, PL-12, PM-Scl75, PM-Scl100, SRP, EJ, OJ, Ro-52, mda5, tif1g	Immunoblot		27-Jul-17
Paraglioma		SDHB (185470); SDHC (602413); SDHD (602690)	Lavender Top (EDTA)	Alberta Mol Dx Laboratory (Calgary)		del/dupl		
Paraglioma		SDHB (185470)	Lavender Top (EDTA)	Alberta Mol Dx Laboratory (Calgary)		Sanger sequencing		
Paraglioma		SDHC (602413)	Lavender Top (EDTA)	Alberta Mol Dx Laboratory (Calgary)		Sanger sequencing		
Paraglioma		SDHD (602690)	Lavender Top (EDTA)	Alberta Mol Dx Laboratory (Calgary)		Sanger sequencing		
Paraneoplastic Antibody Panel PLUS	61		SERUM preferred;Gold SST; 2nd choice CSF	Mitogen Advanced Diagnostics	Amphiphysin, Ri (NOVA-1), Yo, Hu, PNMA2 (Ma2/Ta), CV2.1, Recoverin, SOX1, tintin, Zic4, GAD65, Tr (DNER)	LIA	Under special circumstances only; Default is BC Neuroimmunology.	13-Jan-26
Paraneoplastic Autoantibody Evaluation, Serum [PAVAL]	61		Red Top (preferred); Gold SST. Store at 4°C (14 days) or frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	*Requires special approval.*	RIA; IFA; EIA; Western blot; CBA	Obsolete Test resplced by ENS2 & AIAES	24-Apr-26

Parkinson Disease panel [T401]	665		Lavender Top (EDTA)	GeneDx (www.genedx.com)		Next Generation DNA Sequencing		06-Jun-24
Parkinson-Alzheimer-Dementia NGS Panel	597	A2M, AAAS, ACE, APOE, APP, ATP13A2, ATP1A3, C9orf72, CSF1R, DCTN1, DNMT1, EIF4G1, FBXO7, GBA, GCH1, GRN, HTRA2, LRRK2, MAPT, MPO, PARK2, PARK7, PINK1, PLA2G6, POLG, PRKRA, PRNP, PSEN1, PSEN2, SLC6A3, SNCA, SNCB, TAF1, TH, TREM2, TYROBP, UCHL1, VPS35 (38 genes)	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)	Includes: Dystonia, DOPA-responsive (BRD) (128230) and C9orf72 repeat analysis	NextGen Sequencing		2025/03/26
PARKINSON'S DISEASE, JUVENILE VIA THE PRKN/PARK2 GENE [11607]	664	PARK2 (602544)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Parkinson disease, juvenile, type 2 (600116)	NGS		10-Jul-23
Parkinsons Disease/Parkinsonism [NGS357]	665		Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		Next Generation DNA Sequencing	COMPANY OPERATION SUSPENDED	09-May-20
PDGFRA		PDGFRA (173490)	Green Top (heparin)	CHUM-Notre Dame	Hypereosinophilic syndrome, idiopathic, resistant to imatinib (607685); Gastrointestinal stromal tumor, somatic (606764)	FISH		

Pepsinogen I	1748		3 ml serum or EDTA plasma should be collected and separated as soon as possible. Freeze specimens immediately after separation. Minimum specimen size is 1 ml.	InterScience Institute (www.interscienceinstitute.com)	Patient should be fasting 10 - 12 hours prior to collection of specimen. Antacids or other medications affecting stomach acidity or gastrointestinal motility should be discontinued, if possible, for at least 48 hours prior to collection.	RIA		19-Jan-23
Pepsinogen I [FPEPS]	1748		Red Top or Gold SST or Lavender (EDTA). Separate immediately and freeze.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)			Sent to Interscience Institute. PSN-2 at ISI.	20-Oct-20
Pepsinogen II	1748		3 ml serum or EDTA plasma should be collected and separated as soon as possible. Freeze specimens immediately after separation. Minimum specimen size is 1 ml.	InterScience Institute (www.interscienceinstitute.com)	Patient should be fasting 10 - 12 hours prior to collection of specimen. Antacids or other medications affecting stomach acidity or gastrointestinal motility should be discontinued, if possible, for at least 48 hours prior to collection.	RIA		19-Jan-23
Perforin	1158	PRF1 (1780280)	Lavender Top (EDTA)	Hospital for Sick Children (Rapid Response Laboratory)	hemophagocytic lymphohistiocytosis (HLH), familial 2 (603553)	Sanger sequencing		
Perforin protein expression	1158		Lavender Top (EDTA)	Hospital for Sick Children (Rapid Response Laboratory)	hemophagocytic lymphohistiocytosis (HLH) (603553)			
Perforin/Granzyme [HLH]	817		Heparin	Alberta Precision Laboratories (Flow Cytometry - Calgary)			To be accompanied by normal control sample	14-Oct-20

Periodic Fever/Autoinflammatory Disorders NGS Panel	838	AP1S3, CARD14, CECR1, ELANE, HAX1, IL10, IL10RA, IL10RB, IL1RN, IL36RN, LPIN2, MEFV, MVK, NLRC4, NLRP12, NLRP3, NLRP7, NOD2, PLCG2, PSMB8, PSTPIP1, RBCK1, SH3BP2, SLC29A3, TMEM173, TNFRSF11A, TNFRSF1A, NLRP1 (28 genes)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Familial Mediterranean Fever (FMF) (249100 and 134610); TNF receptor-associated periodic syndrome (TRAPS (142680); Hyperimmunoglobulin D Syndrome (HIDS) (260920)	NextGen Sequencing	55409 – Panel virtuel ciblé de gènes associés aux maladies auto-inflammatoires analysé à partir de l'exome (compilation seulement) (RQDM). Assigned to HSJ but NOT available yet.	2025/03/26
Periodic Paralysis Panel [ME2101]	591	CACNA1S (114208), CLCN1 (118425), KCNJ2 (600681), SCN4A (603967)	Lavender Top (EDTA)	Blueprint Genetics		NextGen Sequencing	Replaces MNG Panel: [Hypokalemic and Hyperkalemic Periodic Paralysis Disorders (NextGen Sequencing Panel and Copy Number Analysis; 7 Genes) [NGS332]	22-May-25
Pfeiffer Syndrome (FGFR1, FGFR2, FGRR3 recurrent mutation Aanalysis)	1055	FGFR1 (136350); FGFR2 (176943); FRGR3	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Craniosynostosis: Apert syndrome (101200), Pfeiffer syndrome (101600)			07-Mar-24
Phosphoethanolamine, Quantitative Urine [LAB1962]	1467		Urine. Store frozen at -20°C (1 month).	Seattle Children's Hospital http://seattlechildrenslab.testcatalog.org/		IEC		18-Jul-26
Phosphoglycerate kinase 1 deficiency (300653)		PGK1 (311800)	Lavender Top (EDTA)	Centogene AG (www.centogene.com)		Sanger sequencing		

Phosphomannomutase (PMM) and Phosphomannose Isomerase (PMI), Leukocytes [PMMIL]	1467		Yellow top (ACD solution B) or Yellow top (ACD solution A). DO NOT CONFUSE WITH STANDARD GOLD SST tube. Do not transfer contents. Store at 4°C. Send immediately.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Enzyme assay.		23-Jul-26
Phosphorylase b Kinase enzyme activity			Lavender Top (EDTA) 10 cc OR dried blood spot; other sample types available	Glycogen Storage Disease Laboratory. Duke University Hospital. http://pediatrics.duke.edu/divisions/medical-genetics/biochemical-genetics-laboratory	Glycogen Storage Disease, Type IX, Liver form (306000)	GSDIX phosphorylase b kinase enzyme assay on red blood cells; other enzyme assays available		18-Jul-17
Phosphorylated-tau-181 (pTau181)	140		For CSF, use Sarstedt CSF Tube 62.610.018. Collect CSF directly into Sarstedt tubes and fill the tube 50% to 80% minimum. The specimen must not be aliquoted from a regular collection tube. If the first 1mL collected is hemolyzed, discard and continue collection with a new tube. NOT CURRENTLY AVAILABLE ON PLASMA.	BC Neuroimmunology (bcneuro.ca)	Less discimination than SIMOA assay.Best CSF test.	Lumipulse	Requires: Neurodegenerative Profile Requisition Form	02-Jun-26
Platelia Apergillus Galactomannan EIA [309]	1467		Serum: Collect serum specimens in serum separator or red top tube. Allow blood to clot for 30 minutes, then centrifuge. Pipette serum into a plastic screw cap vial. CSF/BAL: Submit CSF and BAL in a sterile screw cap container. STABILITY Room Temperature: 48 hours Refrigerated: 5 days Frozen: 5 months	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22

PLP1-RELATED DISORDERS VIA THE PLP1 GENE [10019]		PLP1 (300401)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Pelizaeus-Merzbacher disease (312080) and spastic paraplegia (312920)	NGS		10-Jul-23
Pneumocystis DNA PCR [402]	1395		Transfer 2 mL of bronchoalveolar lavage (BAL) fluid (preferred) to a sterile, leakproof container. Tracheal aspirate and bronchial wash will be reported with a rare specimen comment.STABILITY Room Temperature/Ambient: 14 days Refrigerated: 14 days Frozen: 28 days	MiraVista Diagnostics			Reserved for Microbiology	08-Sep-22
Polycystic Kidney Disease Panel [KI2101]	795	PKD1 (601313); PKD2 (173910), PKHD1; + 10 others	Lavender Top (2 x 4 mL)	Blueprint Genetics http://blueprintgenetics.com/	Polycystic kidney disease, adult type 1 (173900); Polycystic kidney disease 2 (613095)	NextGen Sequencing		2026/04/14

Polymicrogyria Deletion/Duplication Panel (11 genes deletion/duplication analysis)		GPR56 (604110), KIAA1279 (609367), OCLN (602876), RTTN (610436), TUB1A (602529), TUBA8 (605742),TUBB2b (612850), TUBB3 (602661), RAP18 (602207), RAB3GAP1 (602536), RAB3GAP2 (609275)	Lavender Top (EDTA)	University of Chicago Genetic Services Laboratories	Bilateral frontoparietal polymicrogyria (606854), Goldberg-Shprintzen Magacolon Synddrome (609460), Band-like Calcification with Simplified glyration and polymicrogyria (251290), Polymicrogyria with seizures (614833), polymicrogyria with optic nerve hypoplasia (612180), asymmetric polymicrogyria (610031), Complex cortical dysplasia with other brain malformations (614039), Warburg Micro syndrome (600118)	oligonucleotide array-CGH		

Polymicrogyria Sequencing Panel (12 genes sequecning)		GPR56 (604110), KIAA1279 (609367), OCLN (602876), RTTN (610436), TUB1A (602529), TUBA8 (605742),TUBB2b (612850), TUBB3 (602661), RAP18 (602207), RAB3GAP1 (602536), RAB3GAP2 (609275), WDR62 (613583)	Lavender Top (EDTA)	University of Chicago Genetic Services Laboratories	Bilateral frontoparietal polymicrogyria (606854), Goldberg-Shprintzen Magacolon Synddrome (609460), Band-like Calcification with Simplified glyration and polymicrogyria (251290), Polymicrogyria with seizures (614833), polymicrogyria with optic nerve hypoplasia (612180), asymmetric polymicrogyria (610031), Complex cortical dysplasia with other brain malformations (614039), Warburg Micro syndrome (600118)	1. Next-gen Sequencing 2. Sanger sequencing (confirmation)	TO BE CONFIRMED	
Pontocerebellar Hypoplasia NGS Panel	886	CASK, OPHN1, RARS2, SEPSECS, TSEN2, TSEN34, TSEN54, VRK1	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
PONTOCEREBELLAR HYPOPLASIA Panel [5051]		EXOSC3 (606489)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Pontocerebellar hypoplasia, type 1B (614678)	NGS	See Fulgent Panel	10-Jul-23
Porencephaly 1 (175780)		COL4A1 (120130)	Lavender Top (EDTA)	Centogene AG (www.centogene.com)		1. single exon testing 2. full gene sequencing 3. deletion/duplication testing		

MNI

Porphobilinogen Deaminase (PBGD), Whole Blood [PBGD_]	1324		Green Top, 2 mL, 4°C only	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Acute Intermittent Porphyria (176000)			
Porphyria Disorders NGS Panel	1324	ALAD (125270), ALAS2 (301300) C15ORF41 (615626), CPOX (612732), FECH (612386), HFE (613609), HMBS (609806), PPOX (600923), SLC19A2 (603941), UROD (613521), UROS (606938).	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing		2025/03/26
Porphyrins Evaluation, Whole Blood [PEE]	1324		Green Top (heparin), fasting, handle 4°C. Must arrive within 3 days of drawing. Alternate: washed erthyrocytes	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	erythropoietic protoporphyria (177000) and congenital erythropoietic porphyria (163700)			20-Oct-20
Porphyrins, Total, plasma [PTP]	1324		Green top (heparin); protect from light; transfer to amber vial	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Porphyria Cutanea Tarda (176100)			20-Oct-20
Preliminary Testing Panel for Autoimmune Encephalitis [OLD NAME: MOSAIC-6 Autoimmune Encephalitis Panel]	1417	NMDAR, $GABA_{B,}$ DPPX, LGI, CASPR2, AMPAR	Serum and CSF accepted. Store at -20°C. (CSFpreferred as NMDA Ab is made by plasma cells in CSF).	BC Neuroimmunolgy (bcneuro.ca)		Also available as single tests; NMDR, LGI, CASPR, AMPAR, GABAb, DPPX, GAD65, IgLON5, GFAP. All at $200. Confirmatory test in N/C. NMDA Ab titre for following pt.		02-Jun-26

Preliminary Testing Panel for Paraneoplastic antibodies [OLD NAME: Paraneoplastic (Neuronal) Antibodies By Immunoblot]	61		Serum (Gold SST or Red Top) CSF accepted. 1st choice. 2nd choice: CSF. Store at -20°C	BC Neuroimmunology (bcneuro.ca)	Amphiphysin, CV2 (CRMP5), PNMA2 (Ma2/Ta), Ri, Yo, Hu, Recoverin, SOX1, Tintin, Zic4, GAD65, Tr (DNER)	IF with reflex to Immunoblot and CBA fixed. Immunoblot onlty test is for rapid TAT only.	Alt @MUHC on serum: Paraneoplastic/Anti-Neuronal Ab (Anti:HU,RI,YO,CV2,PNMA2,Amphiphysin). These are biomarkers of cytotoxic T-cells for disease and not disease causing.	02-Jun-26
Primary Ciliary Dyskinesia panel (Invitae) [04101]	771	CCDC65, DNAH11, RSPH4A, RPGR, CCDC40, ZMYND10, DNAAF1, DNAAF2, DNAAF3, DYX1C1, DNAI1, CCDC103, DNAI2, RSPH3, RSPH1, DNAAF5, RSPH9, OFD1, DRC1, CCDC39, LRRC6, SPAG1, CCDC151, MCIDAS, ARMC4, C21orf59, DNAH1, DNAH5, DNAH8, NME8, GAS8, CCNO, CCDC114, DNAL1	Lavender Top (EDTA) 2-5 cc	Invitae (https://www.invitae.com 475 Brannan St. Ste. 230) San Francisco, CA, 94107	Primary Ciliary Dyskinesia panel (244400)	NGS with del/dup analysis	SUSPENDED	10-Jul-23
PRIMARY FAMILIAL AND CONGENITAL POLYCYTHEMIA (PFCP) VIA THE EPOR GENE [8441]	1475	EPOR (133171)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Familial Erythrocytosis, 1 (133100)	Sanger sequencing	NOT available at HMR	10-Jul-23

Primary Immunodeficiency Panel (Invitae) [08100]	1042	ACD, ACP5, ACTB, ADA, ADA2, ADAM17, ADAR, AICDA, AIRE, AK2, AP3B1, ATM, B2M, BCL10, BLNK, BLOC1S6, BTK, CARD11, CARD14, CARD9, CASP10, CASP8, CD247, CD27, CD3D, CD3E, CD3G, CD40LG, CD79A, CD79B, CD8A, CEBPE, CHD7, CIITA, CLPB, COPA, CORO1A, CR2, CSF2RA, CSF3R, CTC1, CTLA4, CTPS1, CTSC, CXCR4, CYBA, CYBB, DCLRE1B, DCLRE1C, DKC1, DNMT3B, DOCK2, DOCK8, ELANE, EPG5, FADD, FAS, FASLG, FERMT3, FOXN1, FOXP3, FPR1, G6PC3, GATA2, GFI1, HAX1, ICOS, IFIH1, IFNGR1, IFNGR2, IGLL1, IKBKB, IL10, IL10RA, IL10RB, IL12B, IL12RB1, IL17F, IL17RA, IL17RC, IL1RN, IL21, IL21R, IL2RA, IL2RG, IL36RN, IL7R, IRAK4, IRF7, IRF8, ISG15, ITCH, ITGB2, ITK, JAGN1, JAK3, LAMTOR2, LCK, LIG4, LPIN2, LRBA, LYST, MAGT1, MALT1, MAP3K14, MEFV, MOGS, MVK, MYD88, NBN, NCF2, NCF4, NFAT5, NFKB2, NFKBIA, NHEJ1, NHP2, NLRC4, NLRP12, NLRP3, NOD2, NOP10, ORAI1, PARN, PGM3, PIK3CD, PIK3R1, PLCG2, PMS2, PNP, POLE, PRF1, PRKCD, PRKDC, PSMB8, PSTPIP1, PTPRC, RAB27A, RAC2, RAG1, RAG2, RBCK1, RFX5, RFXANK, RFXAP, RHOH, RMRP, RNASEH2A, RNASEH2B, RNASEH2C, RORC, RTEL1, SAMHD1, SEMA3E, SH2D1A, SH3BP2, SLC29A3, SLC35C1, SLC37A4, SLC7A7, SMARCAL1, SP110, SPINK5, STAT1, STAT2, STAT3, STAT5B, STIM1, STK4, STX11, STXBP2, TAP1, TAP2, TAPBP, TAZ, TBK1, TCN2, TERC, TERT, TFNSF12, TICAM1, TINF2, TLR3, TMC6, TMC8, TMEM173, TNFRSF13B, TNFRSF13C, TNFRSF1A, TNFRSF4, TPP2, TRAF3, TRAF3IP2, TREX1, TRNT1, TTC7A, TYK2, UNC13D, UNC93B1, UNG, VPS13B, VPS45, WAS, WIPF1, XIAP, ZAP70, ZBTB24	Lavender Top (2 x 4 mL)	Invitae/Dynacare		NGS with del/dup analysis	SUSPENDED. Use PID from Blueprint Genetics IM0301	01-Apr-25
Primary Immunodeficiency Panel [IM0301]	1042		Lavender Top (2 x 4 mL)	Blueprint Genetics http://blueprintgenetics.com/		NGS	For Adults ONLY. For ≤18, use Panel at HSJ..Panel virtuel global de gènes associés aux erreurs innées de l'immunité at HSJ IMPORTANT : cette analyse doit être demandée en trio et est réservée aux cas pédiatriques (moins de 18 ans)	11-Aug-26

Primary Immunodeficiency (PID) and Primary Ciliary Dyskinesia (PCD) Panel [IM0801]	1042		Lavender Top (2 x 4 mL)	Blueprint Genetics http://blueprintgenetics.com/		NGS	For Adults ONLY. For ≤18, use Panel at HSJ..Panel virtuel global de gènes associés aux erreurs innées de l'immunité at HSJ IMPORTANT : cette analyse doit être demandée en trio et est réservée aux cas pédiatriques (moins de 18 ans)	22-Jan-26
Procainamide and N-acetylprocainamide, Serum [PA]	1465		Gold SST	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		immunoassay		10-Aug-21
Procalcitonin, Serum [PCT]			Red top	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		TRACE immunofluorescent assay	Available at JGH	21-Feb-18
Procollagen I Intact N-Terminal, Serum [PINP]	178		Red Top or Gold SST. Send serum. Stable frozen for 14 days.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	An aid in monitoring antiresorptive and anabolic therapy in patients with osteoporosis; An adjunct in the assessment of conditions associated with increased bone turnover such as Paget disease	competitive radioimmunoassay		23-Jul-26
PROGRESSIVE BULBAR PALSY WITH OR WITHOUT SENSORINEURAL DEAFNESS [BROWN-VIALETTO-VAN LAERE SYNDROME (211530) AND FAZIO-LONDE DISEASE (211500)] VIA THE SLC52A3 (C20ORF54) [8711]		SLC52A3 (613350)	Lavender top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Not available: SLC52A2 (607882) and SLC52A1 (607883)	NGS		10-Jul-23

Progressive Familial Intrahepatic Cholestasis Type 1 (211600)		ATP8B1 (602397)	Lavender Top (EDTA)	Cinncinatti Children's Hospital (Division of Human Genetics Diagnostic Laboratories)		Sanger sequencing		
Proinsulin, Plasma [PINS]	179		Draw blood in a ice-cooled purple-top EDTA. (Plasma gel tube is not acceptable.) Chill on ice for 10 minutes. Spin down and send 1 mL of EDTA plasma frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		Quantitative Chemiluminescent Immunoassay		13-Dec-22
PROSIGNA Breast cancer genetic expression signature							NOT APPROVED FOR OUT OF PROVINCE SEND OUT	15-Sep-26
Psychotropic Pharmcogenomics Gene Panel, Varies [PSYGP]	1582		Lavender Top (EDTA)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				04-Mar-21
pTau217 ALZpath/SIMOA	140		Plasma EDTA. Freeze immediately.	BC Neuroimmunology (bcneuro.ca)	Provides best discimination of pathology in plasma	ALZPath Simoa Assay	Requires: Neurodegenerative Profile Requisition Form	02-Jun-26
PTEN Hamartoma Tumor Syndrome via the PTEN Gene [7513]		PTEN (601728)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Bannayan-Riley-Ruvalcaba Syndrome (153480); Cowden Disease (158350); Cutaneous Malignant Melanoma 1 (155600); Macrocephaly/Autism Syndrome (605309); Vacterl Association With Hydrocephalus (276950)	NGS		10-Jul-23
PTH Related Peptide [PTHRP]	183		EDTA plasma. Stable 30 days at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		ICMA. N-terminal assay.	No longer available in Quebec.	13-Aug-26

Pulmonary Hypertension NGS Panel		ACVRL1 (601284), BMPR2 (600799), CAV1 (601047), ENG (131195), SMAD9 (603295)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)	Telangiectasia, hereditary hemorrhagic, type 2 (600376); Pulmonary hypertension, familial primary, 1, with or without HHT/Pulmonary hypertension, primary, fenfluramine or dexfenfluramine-associated (178600); Pulmonary hypertension, primary, 3 (615343); Telangiectasia, hereditary hemorrhagic, type 1 (187300); Pulmonary hypertension, primary, 2 (615342)	NextGen Sequencing		2025/03/26
Pyridoxal 5'-phosphate (CSF) [NC05]			Collect 1 milliliter of CSF. Spin sample if contaminated with red blood cells and freeze the clear CSF at -80°Celsius. Store frozen at -80°Celsius.	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Pyridoxamine 5-prime-phosphate oxidase deficiency |		COMPANY OPERATION SUSPENDED.No longer offered Alternate: NGS324 or MOL391	09-May-20
RAPSYN-related disorders via the RAPSYN gene [7801]		RAPSN (601592)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Congenital myasthenic syndromes (608931); Fetal Akinesia Deformation Sequence (208150)	NGS		10-Jul-23

Ravulizumab, Serum [RAVU]	1467		Red Top (only)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				06-Jan-26
Red Blood Cell Memebrane Disorder Panel [HE1201]	1582		Lavender Top (EDTA) [2 tubes]	Blueprint Genetics http://blueprintgenetics.com/				22-Aug-23
Renal Tubular Acidosis NGS Panel	806	ATP6V0A4, ATP6V1B1, CA2, SLC4A1, SLC4A4	Lavender Top (EDTA) [2 tubes]	Fulgent Genetics (fulgentdiagnostics.com)				2025/03/26
Hypothyroidism and Resistance to Thyroid Hormone Panel [EN0701]	440	THRB (190160)	Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/	Thyroid hormone resistance (188570)	NGS		28-Apr-26
Retinal Dystrophy Panel [OP0801]	1395		Lavender Top (EDTA)	Blueprint Genetics http://blueprintgenetics.com/		NGS		21-Jan-25
RETINOBLASTOMA VIA THE RB1 GENE [4501]		RB1 (614041)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Retinoblastoma (180200)	NGS		10-Jul-23
Riboflavin (Vitamin B2), Plasma [VITB2]	1617		Green Top; transfer to amber container; protect from light	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	riboflavin		CHUM no longer	01-Sep-21
Rifampin/Ethambutol [NTM9]	58		Isolate	National Jewish Health				09-Nov-17
Rituximab and Anti-Rituximab Antibody, DoseASSURE™ RTX [504355]	1467		Serum (Gold SST or Red Top). Separate from cells with 45 min. Stable 14 days at -20°C.	LabCorps		ECLIA, CLIA	SUSPENDED	19-Apr-24
RNA Polymerase III Antibodies, IgG, Serum [RNAP]	1078		Serum (Gold SST or Red Top)	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	systemic sclerosis	ELISA		10-Jul-23
Russel Silver Syndrome: Methylation and Copy Number Analysis	992		Lavender Top (EDTA)	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children	Russel-Silver syndrome (180860)	Methylation-Specific-MLPA of imprinting center 1 (H19)		19-Feb-20
Russel Silver Syndrome: UPD7 Analysis	992		Lavender Top (EDTA)	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children	Russel-Silver syndrome (180860)	UPD7 studies via STR (short tandem repeat) analysis		19-Feb-20

RUNX1::RUNX1 t(8;21)T1[3008]	1084		A minimum of 5 mL of peripheral blood or 3 mL of bone marrow submitted in a EDTA (purple top) tube and shipped within 24 hours.	Hematologics, Inc. 3161 Elliot Ave. Suite 200, Seattle WA 98121 1800-860-0934		qPCR		27-Jun-26
RUNX1::RUNX1T1 t(8;21)T1[3008]	1084		Lavender Top (EDTA)	Genome Diagnostics & Cancer Cytogenetics Malignant Hematology Testing - Toronto General Hospital	quantitative RNA-based test	qPCR		15-Sep-26
SACS Single Gene testing	657	SACS (604490)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Spastic ataxia, Charlevoix-Saguenay type (270550)	NextGen Sequencing		03-Dec-21
Saethre-Chotzen Syndrome (TWIST seq & select exons in FGFR3)		TWIST1 (601622); FGFR3 (134934)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Craniosynostosis: Saethre-Chotzen syndrome (101400)	Sanger sequencing: TWIST1; FGFR3 (p.Pro250Arg)		
SANDHOFF DISEASE VIA THE HEXB GENE [7891]		HEXB (606873)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Sandhoff Disease (268800)	NGS		10-Jul-23
SAP Protein Expression [XLP1]	816	SH2D1A (300490)	Heparin	Alberta Precision Laboratories (Flow Cytometry - Calgary)	X-linked lymphoproliferative syndrome (XLP1) (308240)		To be accompanied by normal control sample	14-Oct-20
SCA3/Machado Joseph disease (109150)	1623	ATNX3 (607047)	Lavender Top (EDTA)	North York General	SCA Panel available			28-Mar-23
SCN4A Full Gene sequencing Analysis [MOL356]; Paramyotonia Congenita (168300)		SCN4A (603967)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Paramyotonia Congenita (168300)	Sanger sequencing	COMPANY OPERATION SUSPENDED	09-May-20

Secretin			EDTA plasma containing the G.I. Preservative Freeze immediately	InterScience Institute				TBU
SELENON-Realted Diseases via SELNON/SEPN1 Gene [11659]		SEPN1 (606210)		Prevention Genetics (www.preventiongenetics.com)	Muscular dystrophy, rigid spine, 1 (602771)	NGS		10-Jul-23
SELS BILIAIRES TOTAUX [50535]			Gold SST. Separate. Store frozen	CHUM (ST. LUC)	bile salts	enzymatic		03-Aug-17
Sequence Alpha HBA1, HBA2, and Beta HBB	820		Lavender Top (EDTA)	Clinical Genetics Laboratory, Juravinski Hospital, Hamilton, ONT			Review AH612 for test sought as req is non-specific	10-Nov-25
Serum Amyloid A (SAA) / ADAMTS13 Panel (2-plex)	1123		EDTA plasma. Frozen at -20°C or on dry ice	Mitogen Advanced Diagnostics	Reference range for SAA available only for plasma & CSF	ALBIA		25-May-26
Serum Bile Acid by LC-MS [Former name: Bile Acid, Serum (Bile Acid Profile)]	9		Urine 5-30mL Serum 0.5-2mL; Bile Fluid 1-2mL. FREEZE URINE and SERUM ASAP.Note: If possible send Urine & Serum. Urine is analyzed for all patients – if Urine shows evidence of a metabolic abnormality, Serum will be tested. URSO can mask detection of bile acid synthetic defects it is preferable for patients to be off URSO or ACTIGAL for 5 DAYS before SAMPLE Collection	Mass Spectrometry Lab – MLC 7019; Cincinnati Children's Hospital Medical Center	Note: This is reflex test from Bile Acids, Urine. Both sample should be sent if possible.	FAB-MS	Available at MCL ($212.15) [BAFS]	08-Aug-17
sFlt/PIGF Ratio, Serum [SFPLB S]	1467		Serum (Gold SST or Red Top). Stable 3d at 4°C. Stable 6 months at-20°C.	In Common Laboratories [Sunnybrook Health Sciences Centre Specimen Management/Clinical Chemistry, Room G-CG-01A 2075 Bayview Avenue Toronto Ontario M4N 3M5 Telephone 416 480 2854 Fax: 416-480 4651]	Pre-eclampsia	Electrochemilum inescence immunoassay (ECLIA) (Roche)		08-Oct-25

Single Drug MIC [NTM3]		NTM	Isolate	National Jewish Health	RIF, EMB, CIP, MXF, AMK, LZD, CLR, CLF, RFB, STR, ETH, LVX, AZM OFX, KAN, CSI			09-Nov-17
Single Gene Repeat Expansion Analysis FGF14 [4103]	1395	FGF14	Lavender Top (EDTA)	U. of Chicago Genetic Services Laboratory	SCA27B			15-Oct-26
Single Gene Repeat Expansion Analysis RFC1 [4103]	1395	RFC1	Lavender Top (EDTA)	U. of Chicago Genetic Services Laboratory	CANVAS			15-Oct-26
Sjogren Syndrome Profile, Serum [SSAB S]	1467	Anti SSA (Ro60) Ab; Anti Ro52 (TRIM21) Ab; Anti SSB (La) Ab	Gold SST. Centrifuge and store serum at -20°C. Stable for 60 days.	In-Common Laboratories		immunoblot	Replaces Mitogen. Mitogen does not accept CSF.	30-Mar-25
SLC2A1 Full Gene Sequencing + MLPA Duplication/Deletion Analysis [MOL231] (GLUT1 deficiency syndrome 1)		SLC2A1 (138140)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	GLUT1 deficiency syndrome 1 (GLUT1DS1); Dystonia 9 (DYT9); GLUT1 deficiency syndrome 2 (GLUT1DS2); Epilepsy, idiopathic generalized, susceptibility to, 12 (EIG1)	Polymerase Chain Reaction (PCR) followed by DNA sequencing analysis; Multiplex Ligation-dependent Probe Amplification (MLPA) analysis	COMPANY OPERATION SUSPENDED	09-May-20
Soluble C5b-9 (sMAC) Assay	188		1 ml frozen EDTA plasma	Molecular Otolaryngology & Renal Research Laboratory, U. of Iowa Carver College of Medicine (www.medicine.uiowa.edu/morl)	complement-mediated renal diseases	Enzyme Linked Immuno-Sorbent Assay (ELISA)	See Cincinnati	01-Mar-25
Soluble CD163	1158		EDTA plasma - 2 aliquots. Store in polypropylene tubes.. Send frozen. Satble 6 month	Cincinnati Children's Hospital Medical Center, Diagnostics Immunolgy Laboratory, 3333 Burnet Avenue NRB 1042 Cincinnati, OH 45229 (www.cincinnatichildrens.org)	hemophagocytic lymphohistiocytosis (HLH)			18-Apr-23

Soluble Transferrin Receptor, Serum/Plasma [STFRCHE SP]	1138		Preferred: Light Green (Li heparin). Acceptable: Gold SST. Stable 7d at 4°C. Frozen: 28 days.	In Common Laboratories		PETIA		06-Mar-26
Somatic Overgrowth Panel	1261		Fresh Tissue or FFPE	WashU Medicine Pathology Services		NGS $2950 + Path review $439 + Sign out charge $80		11-Oct-26
Somatostatin (Somatotropin Release-Inhibiting Factor, SRIF)	193		EDTA plasma containing the G.I. Preservative ($30). Freeze immediately.	InterScience Institute				19-Jan-23
Sorbitol and Xylitol, Quantitative, Random Urine [SORD]	1467		Random urine sample. Store at 4° (preferred) or -20°C. Stable 28 days at either temperature.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		GC-MS		05-May-26
SOTOS SYNDROME VIA THE NSD1 GENE [132]		NSD1 (606681)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Sotos' Syndrome (117550)	MGS		10-Jul-23

Spastic Paraplegia (NextGen Sequencing Panel and Copy Number Analysis; 380 Genes + mtDNA) [NGS337]	657	ABCD1 (300371), ACOX1 (609751), ACTB (102630), AFG3L2 (604581), ALDH18A1 (138250), ALS2 (606352), AMPD2 (102771), AP4B1 (607245), AP4E1 (607244), AP4M1 (602296), AP4S1 (607243), KIAA0415 (613653), ARSA (607574), ARX (300382), ASNS (615574), ATL1 (606439), ATXN2 (601517), AUH (600529), B3GALT6 (615291), B4GALNT1 (601873), BCOR (300485), BSCL2 (606158), C12orf65 (613541), C19orf12 (614298), CCDC88C (611204), CCT5 (610150), CLPP (601119), COASY (609855), CPT1C (608846), CTNNB1 (116806), CYP2U1 (610670), CYP7B1 (603711), DARS (603084), DCTN1 (601143), DDHD1 (614603), DDHD2 (615003), DYNC1H1 (600112), EARS2 (612799), ELOVL4 (605512), ERLIN2 (611605), FA2H (611026), FARS2 (611592), FBXO7 (605648), FLNA (300017), FUCA1 (612280), GAD1 (605363), GAN (605379), GBA (606463), GBA2 (609471), GBE1 (607839), GCDH (608801), GJC2 (608803), GLB1 (611458), GM2A (613109), GSS (601002), HARS2 (600783), HSD17B4 (601860), HSPD1 (118190), IBA57 (615316), IFIH1 (606951)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	= paraparesis	NextGen Sequencing	COMPANY OPERATION SUSPENED - MNG. DO NOT SEND TO GENE DX. SUBSTITUTE Blueprint Genetics Spastic Paraplegia Panel [NE0501]	09-May-20
Spastic paraplegia 3A, autosomal dominant (182600)	657	ATL1 (606439)	Lavender Top (EDTA)	Centogene AG (www.centogene.com)		1. single exon testing 2. full gene sequencing 3. deletion/duplication testing	SUSPENDED	

Spinal and Bulbar Muscular Atrophy: AR Trinucleotide Repeat Analysis	958	AR (313700)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)	Spinal and bulbar muscular atrophy of Kennedy	AR exon 1 trinucleotide (CAG) repeat analysis		27-Jun-24
Spinal Muscular Atrophy (NextGen Sequencing Panel and Copy Number Analysis; 21 Genes) [NGS347]	958	AR (313700), ASAH1 (613468), ATP7A (300011), BICD2 (609797), DNAJB2 (604139), DYNC1H1 (600112), HSPB1 (602195), HSPB3 (604624), HSPB8 (608014), IGHMBP2 (600502), PLEKHG5 (611101), SIGMAR1 (601978), GPR172A (607882), SLC5A7 (608761), SMN1 (600354), SMN2 (601627), TBCD (604649), TRPV4 (605427), UBA1 (314370), VAPB (605704), VRK1 (602168)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare		NextGen Sequencing	COMPANY OPERATION SUSPENDED	09-May-20
Anti-SMN Complex	1467	SMN1, Gemin 3, P80, RuvBL1, RuvBL2 (LDT)	Gold SST	Mitogen Advanced Diagnostics				24-Apr-26
Spinal Muscular Atrophy: SMN1 and SMN2 deletion/Duplication Analysis	958	SMN1 (600354); SMN2 (601627)	Lavender Top (EDTA)	Molecular Genetics Laboratory, Hospital for Sick Children (www.sickkids.ca/PaediatricLaboratoryMedicine/Laboratories-Services/Molecular-Genetics-Laboratory/index.html)		Deletion /duplication via MLPA	SMN1 testing is available at HSJ	27-Jun-24
Spinocerebellar Ataxia (SCA) Panel (1,2,3,6,7,8,17)	584		Lavender Top (EDTA)	North York General	individuals tests $378	Sanger sequencing	no del/dupl	14-May-18

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Spinocerebellar ataxia 1 (601556)	584	ATXN1 (601556)	Lavender Top (EDTA)	North York General	SCA Panel available	Sanger sequencing		05-Aug-20
Spinocerebellar ataxia 11 (604432)	584	TTBK2 (611695)	Lavender Top (EDTA)	Centogene AG (www.centogene.com)		1. single exon testing 2. full gene sequencing 3. deletion/duplication testing		
Spinocerebellar ataxia 17 (607136)	584	TBP (600075)	Lavender Top (EDTA)	North York General	SCA Panel available	Sanger sequencing		28-Mar-23
Spinocerebellar ataxia 2 (183090)	584	ATXN2 (601517)	Lavender Top (EDTA)	North York General	SCA Panel available	Sanger sequencing		05-Aug-20
Spinocerebellar ataxia 6 (183086)	584	CACNA1A (601011)	Lavender Top (EDTA)	North York General	SCA Panel available	triplet expansion		
Spinocerebellar ataxia 7 (607640)	584	ATXN7 (607640)	Lavender Top (EDTA)	North York General	SCA Panel available	Sanger sequencing		
Spinocerebellar ataxia 8 (608768)	584	ATXN8 (613289)	Lavender Top (EDTA)	North York General	SCA Panel available	Sanger sequencing		
Spinocerebellar Ataxia, Autosomal Recessive-8 via the SYNE1 Gene Exons 2-146 [11729]	584	SYNE1 (608441)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Spinocerebellar Ataxia, Autosomal Recessive 8 (610743); Emery-Dreifuss Muscular Dystrophy 4, Autosomal Dominant (612998)	NGS		19-Jan-23
Sterols, Plasma [STER]	1721		Plasma EDTA. Store frozen.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Includes cholestanol			10-May-22
Stickler syndrome NGS panel [5127]	567	COL2A1, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, VCAN	Lavender Top (EDTA)	Connective Tissue Gene Test (www.ctgt.net)		NextGen Sequencing		
Sulfatides, Urine	1195		Random urine sample. Store at -20C.	Hospital for Sick Children (Rapid Response Laboratory)				17-May-22
Surfactant NGS Panel		ABCA3 (601615), NKX2-1 (600635), SFTPB (178640), SFTPC (178620)	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)	Surfactant metabolism dysfunction, pulmonary, 2 (610913)			2025/03/26

Syntaxin 11	1158	STX11 (605014)	Lavender Top (EDTA)	Hospital for Sick Children (Rapid Response Laboratory)	hemophagocytic lymphohistiocytosis (HLH) (603552)	Sanger sequencing		
Systemic Sclerosis (Scleroderma, nucleoli) Profile, Serum [SSNAB]	1179	Anti Scl-70 Ab (Anti Topoisomerase I antibody); Anti Centromere protein A Ab; Anti Centromere protein B Ab; Anti RP11 Ab (Anti RNA polymerase III (POLR3K) antibody); Anti RP155 Ab (Anti RNA polymerase III (POLR3A) antibody); Anti Fibrillarin (U3-RNP) Ab; Anti NOR90 Ab(Anti Nucleolus-organizing regions 90 kDa antigen antibody); Anti Th/To Ab; Anti PM-Scl 100 Ab (Anti PM/Scl Complex (100 kDa) antibody); Anti PM-Scl 75 Ab (Anti PM/Scl Complex (75 kDa) antibody); Anti Ku Ab; Anti PDGF Ab (Anti Platelet-derived growth factor receptor antibody); Anti Ro52 (TRIM21) Ab	Gold SST	In-Common Laboratories		Immunoblot	Replaces Mitogen Panel. First Choice CHUM:Panel Sclerodermie [Ac anticentromères (anti-CENP-A, anti-CENP-B), Antitopoisomérase (anti-Scl70), Anti-RNApolymérase(RP11, RP155), Antifibrillarine, Anti-Th/To]. Must be justified if to be sent to ICL.	15-Oct-26
T3 (Triiodothyronine), Reverse, Serum [RT3]	1649		Red Top (preferred); Gold SST. Store at 4°C (28 days) or frozen (28 days).	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS/MS	ON HOLD	03-Feb-25
T3 Reverse, LC/MS/MS [FRT3S]	1649		Red Top (preferred); Gold SST. Store at 4°C (7 days) or frozen (28 days).	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)		LC-MS/MS		28-Apr-26

Tay-Sachs Disease via the HEXA Gene [7889]		HEXA (606869)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Tay-Sachs Disease (272800)	NGS		10-Jul-23
Telomere Length Measurement	1166		Lavender Top (EDTA) - 10 mL. Store at RT. Sample OK for 2 days only - same day send out.	Repeat Diagnostics (Vancouver)		Flow FISH		20-Nov-23
Thiamin (Vitamin B1), Whole Blood [TDP]	224		Fast overnight. Whole Blood (EDTA). Protect from light. Store at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Measures TPP as this provides stores.	LC-MS/MS	Available at CHUM	04-Mar-21
Thiopurine Methyltransferase (TPMT) and Nulix Hydrolase (NUDT15) Genotyping, Varies [TPNUQ]	1395		Whole Blood (EDTA).	Mayo Clinical Laboratories (https://www.mayocliniclabs.com/index.html)		TaqMan		17-Sep-26
Thiosulfate, Serum/Plasma [4472SP]	92		**Red Top (only)**. Promplty separate into screw capped vial. No other tube type accepted. Serum stable for 24 days at 4°Ç or -20°C.	NMS Labs		LC-MS/MS		06-May-19
Thiosulfate, Urine [4472U]	920		Plastic container (no preservatives). **Store only at 4°C.** Stable for 30 days. Rejected if frozen.	NMS Labs		LC-MS/MS		06-May-19
Thrombocytopenia NGS Panel	1076	ADAMTS13, ANKRD26, CYCS, ETV6, GATA1, GP1BA, GP1BB, GP9, ITGA2B, ITGB3, MASTL, MPL, MYH9, RUNX1, WAS	Lavender Top (EDTA)	Fulgent Genetics (fulgentdiagnostics.com)				2025/03/26
Thrombocytopenia Panel [10307]	1076	ADAMTS13 ANKRD26 CYCS GATA1 GP1BA GP1BB GP9 MASTL MPL MYH9 RUNX1 WAS	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		Next Generation DNA Sequencing	MYH9 NOT available at HMR	10-Jul-23

ThyGenX	1680	Point mutations - KRAS, HRAS, NRAS, BRAF, PIK3CA Rearrangements/translocations – RET/PTC1,3, PAX8, PPARgamma	Fine needle aspirate	Groupe TMTC (https://grouptmtc.com)	TERT available at no added cost		ON HOLD. Requires approval by head of OOP	21-Jan-21
ThyGenX/ThyraMIR (reflex)	1680	Point mutations - KRAS, HRAS, NRAS, BRAF, PIK3CA Rearrangements/translocations – RET/PTC1,3, PAX8, PPARgamma	Fine needle aspirate	Groupe TMTC (https://grouptmtc.com)	TERT available at no added cost		ON HOLD. Requires approval by head of OOP	21-Jan-21
ThyroSeq v.3	1680		Fine needle aspirate	Groupe TMTC (https://grouptmtc.com) Le Groupe TMTC Molecular testing 181 Boul Hymus suite 200 Pointe Claire P.Q. 1.833.693.8960 Office 514-949-8962 Mobile		NextGen Sequencing	Restricted to Provincial Pilot Program. Requires approval by head of OOP (no other approver accepted)	17-Nov-21
Thyrotropin Releasing hormone	1572		Thyrotropin Releasing Hormone must be collected with the TRH Preservative tube ($30). Ship specimens frozen in dry ice.	InterScience Institute (www.interscienceinstitute.com)		RIA		19-Jan-23
Tissue Transglutaminase Abs (IgA & IgG) assay [TTIGAG]			Serum (Gold SST or Red Top)	Hospitals-In-Common		CLIA		16-Mar-17
Titanium, Plasma	202		Royal Blue EDTA only. No gel tubes. Separate within30 min. Transfer plasma to plastic container.	Hospitals-In-Common			Available in Quebec	28-Jul-20

Total-Tau (T-Tau)	140		For CSF, use Sarstedt CSF Tube 62.610.018. Collect CSF directly into Sarstedt tubes and fill the tube 50% to 80% minimum. The specimen must not be aliquoted from a regular collection tube. If the first 1mL collected is hemolyzed, discard and continue collection with a new tube.	BC Neuroimmunology (bcneuro.ca)		Lumipulse	Requires: Neurodegenerative Profile Requisition Form	02-Jun-26
TP63-Related Disorders via the TP63 GENE [8263]		TP63 (603273)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	ADULT Syndrome (103285); Limb-Mammary Syndrome (603543); Hay-Wells Syndrome (106260); Rapp-Hodgkin Ectodermal Dysplasia Syndrome (129400);Split-Hand/Foot Malformation 4 (605289); Ectrodactyly, Ectodermal Dysplasia, And Cleft Lip/Palate Syndrome 3 (604292)	NGS		10-Jul-23
TPSAB1 (Tryptase) Copy Number Analysis	1395	TPSAB1	Buccal swabs or Lavender Top (EDTA)	Gene by Gene	Hereditary alpha-tryptasemia	ddPCR		20-Oct-21
Transthyretin amyloidosis (105210)	642	TTR (176300)	Lavender Top (EDTA)	BC Children's Hospital, Division of Genome Diagnostics			Available at IdC	22-Mar-22
Trimethylamine (TMA) and TMA N-oxide (TMAO),Urine (quantitative) [LAB6949]	1468		Pre-load: Morning void urine. Freeze immediately. Post-load (5 g choline): collect urine 12-h after lead. Freeze immediately.	CHILDREN'S HOSPITAL COLORADO	trimethylaminuria	MS/MS	price per sample	07-Jan-25

Trypsinogen [TRGEN]	207		Serum. Store and send frozen	In-Common Laboratories	pancreatic dysfunction (e.g. CF)	RIA	NOT AVAILBLE CURRENTLY (Only doneon Guthrie card in Quebec as newborn screening.)	08-Sep-26
Tuberous Sclerosis Complex Panel [10661]	783	TSC1 (605284); TSC2 (191092)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Tuberous sclerosis-1 (191100); Tuberous sclerosis-2 (613254)	NextGen Sequencing + del/dupl (MLPA)		10-Jul-23
TYPE IV VOLTAGE-GATED SODIUM CHANNEL (ALPHA SUBUNIT)-RELATED DISORDERS VIA THE SCN4A GENE [11645]		SCN4A (603967)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Congenital Myasthenic Syndrome, Acetazolamide-Responsive (614198); Potassium Aggravated Myotonia (608390); Paramyotonia Congenita Of Von Eulenburg (168300); Hypokalemic Periodic Paralysis, Type 2 (613345); Hyperkalemic Periodic Paralysis; HYPP (170500)	Replaces Sanger sequencing [416]		10-Jul-23
Type VI Collagenopathy via the COL6A1 gene [11197]		COL6A1 (120220)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Ullrich congenital muscular dystrophy (254090); Bethlem myopathy (158810)	Replaces Sanger sequencing [487]		10-Jul-23

Type VI-Related Collagenopathy Panel [10183]		COL12A1, COL6A1 (120220), COL6A2 (120240), COL6A3 (120250)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Ullrich congenital muscular dystrophy (254090) and Bethlem myopathy (158810)	NextGen Sequencing + del/dupl		10-Jul-23
UBA1 Mutation Quantitative Detection, VEXAS syndrome, Droplet Digital PCR, Varies [UBA1Q]	1395		Lavender Top (EDTA); bone marrow aspirate; DNA. Must be rceived in 7 days of draw.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	req 726 Hematopathology	ddPCR		05-May-26
UBE3A Full Gene Sequencing Analysis [MOL093]		UBE3A (601623)	Lavender Top (EDTA)	MNG Laboratories (www.medicalneurogenetics.com)/Dynacare	Angelman Syndrome (105830)	Sanger sequencing	COMPANY OPERAION SUSPENDED	14-May-20
Urinary Bile Acid by FAB-MS [Former name: Bile Acid, Urine (Bile Acid Profile)]	9		Urine 5-30mL Serum 0.5-2mL; Bile Fluid 1-2mL. FREEZE URINE and SERUM ASAP. Note: If possible send Urine & Serum. Urine is analyzed for all patients – if Urine shows evidence of a metabolic abnormality, Serum will be tested. URSO can mask detection of bile acid synthetic defects it is preferable for patients to be off URSO or ACTIGAL for 5 DAYS before SAMPLE Collection	Mass Spectrometry Lab – MLC 7019; Cincinnati Children's Hospital Medical Center		FAB-MS	NOT AVAILABLE AT MCL	08-Aug-17
Uroporphyrinogen Decarboxylase (UPG D), Whole Blood [UPGD]			Green top, 2 mL, 4°C only	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	Porphyria Cutanea Tarda (176100)			
Ustekinumab Quantitation with Antibodies, Serum [USTEK]	1467		Serum. Stable 21 d at 4°C (preferred) or -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)				12-Jul-22
VALOSIN-CONTAINING PROTEIN-RELATED DISORDERS VIA THE VCP GENE [4807]		VCP (601023)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Inclusion body myopathy with early-onset Paget disease and frontotemporal dementia (167320)	NextGen Sequencing		10-Jul-23

Vascular Endothelial Growth Factor (VEGF), Plasma [VEGF]	213		Lavender Top (EDTA); Draw blood in a lavender-top (EDTA) tube(s). Spin down and send 1 mL of EDTA plasma frozen in a plastic vial. Stable 21 d at -20°C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	POEMS			21-Apr-26
Vascular Endothelial Growth Factor D (VEGF-D) [5334318]	213		Gold SST or Red Top preferred. EDTA plasma acceptable.Centrifuge and transfer serum to plastic container. Store at -20°C. Transport frozen.	Cancer and Blood Diseases Institute: Diagnostic Immunology Laboratory (CBDI-DIL). Cincinnati's Children's Hospital. www.cchmc.org/DIL	LAM, TSC	Micofluidics immunoassay.		16-Jun-26
Vasoactive Intestinal Polypeptide, Plasma [VIP]	211		EDTA plasma. Stable 90 days at -20*C.	Mayo Clinical Laboratories (www.mayomedicallaboratories.com)	VIPomas, hepatic cirrhosis, and the Verner-Morrison's (Watery Diarrhea) Syndrome	radioimmunoassay	Replaces Intersciene Institute	06-Nov-25
Vitamin B3 and Metabolies, Plasma [VITB3]	218	nicotinic acid, nicotinamide (main form, NAD precursor), nicotinuric acid (inactive metabolite)	Plasma EDTA. Centrifuge & aliquot plasma within 2 h of collection. Store frozen. Stable for 28 days.	Mayo Clinical Laboratories (https://www.mayocliniclabs.com/index.html)	niacin	LC-MS/MS		23-Jul-23
Vitamin B6	219		Plasma (EDTA or Li heparin). Separate and freeze within 1 hour. Protect specimen from light. Specimen must be labelled inside and outside light-protecting wrap. Gel-separator tubes not acceptable. Store and send frozen. If the specimen thaws, it is unsuitable for analysis	In-Common Laboratories	pyridoxine		Available at CHUM	19-Mar-20
Vitamin B6 Profile (Pyridoxal 5-Phosphate and Pyridoxic Acid), Plasma [B6PRO]	219	Pyridoxal 5-Phosphate is the active form	Plasma heparin. Store frozen up to 29 days. Light protected.	Mayo Clinical Laboratories (https://www.mayocliniclabs.com/index.html)			Available at CHUM	09-Jun-22

Vitamin K1, serum [VITK1]	1464		Red top; Collection Instructions: Fasting-overnight (12-14 hours) (infants-draw prior to next feeding). Store at 4°C or frozen (30 d). Send frozen.	Mayo Clinical Laboratories (https://www.mayocliniclabs.com/index.html)		LC-MS/MS		27-Jan-25
Voltage Gated Calcium Channel Antibodies (VGCC Ab)	53		Gold SST. Serum ONLY (CSF not accepred). Centrifuge and transfer serum to plastic container. Store at -20°C. Transport frozen.	BC Neuroimmunology (bcneuro.ca)	Lambert-Eaton Myasthenic Syndrome (LEMS)	RIPA		02-Jun-26
Von Hippel-Lindau Disease via VHL Gene [7523]	261	VHL (608537)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		NGS		10-Jul-23
Warburg Micro Syndrome Comprehensive Panel [1316]		RAB18; RAB3GAP1; RAB3GAP2 (609275); TBC1D20	Lavender Top (EDTA)	University of Chicago Genetic Services Laboratories	Also available: 1. Warburg Micro syndrome Sequencing panel $1500 2. Warburg Micro syndrome Deletion/Duplication panel $1545	NGS + array-CGH	TO BE CONFIRMED	19-Jan-23
Weaver Syndrome (EZH2 Single Gene Test) (277590)		EZH2 (601573)	Lavender Top (2 x 4 mL)	Fulgent Genetics (fulgentdiagnostics.com)		NextGen Sequencing + del/dupl		2025/03/26
WILSON DISEASE / HEPATOLENTICULAR DEGENERATION VIA THE ATP7B GENE [7871]	1185	ATP7B (606882)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Wilson Disease (277900)	NextGen Sequencing		10-Jul-23
X Inactivation Analysis	1109		Lavender Top (EDTA) only. Store at RT.	Genome Diagnostics The Department of Paediatric Laboratory Medicine The Hospital for Sick Children		AR exon 1 trinucleotide repeat and methylation analysis		24-Sep-26
X-Linked Adrenoleukodystrophy via the ABCD1 Gene [7557]	849	ABCD1 (300371)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)		NGS with del/dup analysis		20-Apr-24

X-Linked Complete Congenital Stationary Night Blindness (CSNB1) via the NYX Gene [8705]		NYX (300278)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	Congenital Stationary night blindness, X-Linked, type 1A (310500)	NextGen Sequencing		10-Jul-23
XIAP Protein Expression [XLP2]	817		Pediatric: 1 x 1.8 mL blue top sodium citrate. Adult: 1 x 8.5 mL yellow top ACD-A.	Alberta Precision Laboratories (Flow Cytometry - Calgary)	X-linked lymphoproliferative syndrome (XLP1) (308240)		To be accompanied by normal control sample	30-Jan-24
Zinc Transporter 8 (ZnT8) Antibodies, Serum [ZNT8]	1819		Serum (Gold SST). Store at -20°C. Stable 28 d.	In Common Laboratories		ELISA		01-Oct-26
α-Actin (Skeletal Muscle Form)-Related Myopathy via the ACTA1 Gene [8813]	1572	ACTA1 (102610)	Lavender Top (EDTA)	Prevention Genetics (www.preventiongenetics.com)	nemaline myopathy (NEM3; OMIM #161800) and congenital fiber-type disproportion (CFTD1; OMIM #255310)	NGS	Transferred to HSJ	10-Jul-23

= OK	1467	Biochem not classified	
=TO BE UPDATED	1395	not classified genetics	
= AVAILABLE IN QUEE	1582	not classified genetics	panels only
= DELETE	1572	not classified	
	9999	refused	

14-Nov-23	**Single Gene Test**	**Familial Variant Testing**	**Code**	**Updated**
Prevention (USD)	-	$350/variant	100	
Invitae/Dynacare (CDN)	$502 cancer panels	$TBD cancer		
	$571 non-cancer panels	$TBD non-cancer		
Blueprint (CDN)	$750	$350/variant	FVT001	21-Nov-24
GeneDx (USD)	-	$250/variant	9011	
Fulgent (USD)	$500	$200/variant	no code	
MNG Laboratories		$418.16/variant	MOL249	Company operation suspended.