

BC Neuroimmunology offers the following tests:

*Accredited tests covered under the British Columbia Medical Services Plan (MSP):*

- [Acetylcholine receptor antibodies \(AChR Ab; RIPA\)](#)
- [Muscle-specific tyrosine kinase \(MuSK\) antibodies](#)
- [Voltage-gated calcium channel \(VGCC\) antibodies](#)

*Other accredited tests:*

- [Clustered acetylcholine receptor antibodies \(AChR Ab; cell-based assay\)](#)
- [Aquaporin-4 \(AQP4\) antibodies](#)
- [Myelin oligodendrocyte glycoprotein \(MOG\) antibodies](#)
- [Autoimmune encephalitis panel \(NMDAR, GABAB, DPPX, LGI1, CASPR2, & AMPAR\)](#)
- [Anti-glutamate receptor \(type NMDA\) antibodies](#)
- [Anti-voltage-gated potassium channel \(VGKC\) associated protein \(LGI1 & CASPR2\) antibodies](#)
- [Anti-GABAB antibodies](#)
- [Anti-DPPX antibodies](#)
- [Paraneoplastic \(neuronal\) antibody panel \(immunoblot\)](#)
- [Chronic inflammatory demyelinating Polyneuropathy \(CIDP\) antibody panel](#)
- [Phosphorylated-tau-217 \(pTau217\)](#)

*Referred laboratory tests:*

- [Apolipoprotein E \(APOE\) genotyping](#)
- [Amyloid-beta 42/40 \(A \$\beta\$ 42/40\)](#)
- [Neurofilament-Light Chain \(NfL\)](#)
- [Phosphorylated-tau-181 \(pTau181\)](#)
- [Total tau \(tTau\)](#)
- [Glial fibrillary acidic protein \(GFAP\)](#)

*Tests being offered for research use only:*

- [Low-density Lipoprotein Receptor-related Protein 4 Antibodies \(LRP4 Ab\)](#)

Please note that turnaround times are in business days.

Please note that as of April 1, 2022, the test for **neutralizing antibodies (NAbs) to interferon-beta** is no longer being offered by our laboratory.

<b>Name of test</b>	<b><i>Acetylcholine receptor antibodies</i></b>
<b>Abbreviations, alternate names</b>	AchR Ab, anti-AchR Ab, Myasthenia gravis (MG) autoantibodies
<b>BC MSP Fee code</b>	91020 (Qualitative), 91021 (Quantitative; upon positive result of qualitative test)
<b>Methodology</b>	In-house radioimmunoprecipitation assay (RIA/RIPA), binding and blocking assays
<b>Test requirements</b>	<p><i>Specimen type:</i> Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> grossly hemolyzed and/or grossly lipemic serum</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p>Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
<b>Specimen handling</b>	Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
<b>Specimen stability</b>	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	8 days
<b>Reference Values</b>	<p>Negative</p> <p>Positives are reported with a quantitative result</p>
<b>Additional Information</b>	<p>Please indicate if patients are on or have recently had <b>IVIG treatment</b> so that we may adjust our assay accordingly.</p> <p>For same-day STAT testing for preliminary results (BC only), please call us at 604-822-7175 prior to sample send out. Sample must be received at our laboratory <u>before</u> 11am of that day to qualify for this service or it will be run the next day.</p>

Name of test	<b>Muscle-specific tyrosine kinase antibodies</b>
Abbreviations, alternate names	MuSK Ab
BC MSP Fee code	91022
Methodology	In-house radioimmunoprecipitation assay (RIA/RIPA)
Test requirements*	<p><i>Note: Please see <b>Additional Information</b> on guidelines for MuSK Ab testing coverage under provincial health services.</i></p> <p><i>Specimen type: Serum</i>  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria: grossly hemolyzed and/or grossly lipemic serum</i></p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
Specimen collection	<p>No patient preparation is required for sample collection.</p> <p>Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
Specimen handling	Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
Specimen stability	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)
Testing frequency	Once every two weeks
Turnaround time	21 days
*Additional Information	<p>As per the Medical Services Commission (MSC) guidelines, if this test is to be billed through provincial health services, it must be requested by a <b>neurologist, ophthalmologist, or a neuro-ophthalmologist</b> <u>and</u> the patient has to have been found AchR Ab negative within the last 18 months with BC Neuroimmunology or with another lab, in which case, a copy of the results from the other lab must be attached or stated on the requisition by the ordering physician. The MSC does <u>not</u> cover repeat testing for patients previously negative for MuSK Ab within 18 months of the last test date.</p> <p>For MuSK Ab that is ordered as reflex testing to AchR Ab, MuSK testing is performed <i>after</i> AchR Ab testing and will <u>not</u> be done if the patient is AchR Ab positive.</p>

Name of test	<b><i>Voltage-gated calcium channel antibodies</i></b>
Abbreviations, alternate names	VGCC Ab
BC MSP Fee code	91861
Methodology	Commercial radioimmunoprecipitation kit (Kronus®)
Test requirements*	<p><b><i>Note:</i></b> Please see <b>Additional Information</b> on guidelines for VGCC Ab testing coverage under provincial health services.</p> <p><i>Specimen type:</i> Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> grossly hemolyzed and/or grossly lipemic serum</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
Specimen collection	<p>No patient preparation is required for sample collection.</p> <p>Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
Specimen handling	Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
Specimen stability	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)
Testing frequency	Once a month
Turnaround time	30 days
*Additional Information	If this test is to be billed through provincial health services, it <b><i>must</i></b> be requested by a <b>neurologist</b> as per MSC guidelines. As well, the MSC does not cover repeat VGCC Ab testing as it is a once-in-a-lifetime test.

<b>Name of test</b>	<b><i>Clustered acetylcholine receptor antibodies</i></b>
<b>Abbreviations, alternate names</b>	Clustered AchR Ab, AchR CBA
<b>Methodology</b>	In-house live cell-based assay (CBA)
<b>Test requirements</b>	<p><i>Specimen type:</i> Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> none</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p>Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
<b>Specimen handling</b>	Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
<b>Specimen stability</b>	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	10 days
<b>Additional Information</b>	Clustered AchR Ab testing ordered with AchR Ab by radioimmunoprecipitation will be treated as reflex testing. Clustered AchR Ab testing will be performed <i>after</i> AchR Ab by radioimmunoprecipitation and will <u>not</u> be done for patients that are positive for AchR Ab by radioimmunoprecipitation.

<b>Name of test</b>	<b><i>Aquaporin-4 antibodies</i></b>
<b>Abbreviations, alternate names</b>	AQP4 Ab, NMO Ab
<b>Methodology</b>	In-house live cell-based assay
<b>Test requirements</b>	<p><i>Specimen type:</i> Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> none</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p>Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
<b>Specimen handling</b>	Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
<b>Specimen stability</b>	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	10 days

<b>Name of test</b>	<b><i>Myelin oligodendrocyte antibodies</i></b>
<b>Abbreviations, alternate names</b>	MOG Ab
<b>Methodology</b>	In-house live cell-based assay
<b>Test requirements</b>	<p><i>Specimen type:</i> Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> none</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p>Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
<b>Specimen handling</b>	Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
<b>Specimen stability</b>	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	10 days

<b>Name of test</b>	<b><i>Autoimmune Encephalitis Panel (NMDAR, GABAB, DPPX, LGI1, CASPR2, &amp; AMPAR Ab)</i></b>
<b>Abbreviations, alternate names</b>	Mosaic 6
<b>Methodology</b>	Commercial fixed cell-based assay (Euroimmun), rat brain immunohistochemistry
<b>Test requirements</b>	<p><i>Specimen type:</i> CSF and/or Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> grossly icteric or lipemic serum</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><u>Serum:</u> Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p> <p><u>CSF:</u> Collect at least 1 mL into a sterile tube.</p>
<b>Specimen handling</b>	<p><u>Serum:</u> Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.</p> <p><u>CSF:</u> Samples may be stored at 2 to 8°C for short periods (up to 1 month) but is preferred to be sent as soon as possible and to avoid freeze/thaw cycles.</p>
<b>Specimen stability</b>	<p><u>Serum:</u> May be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)</p> <p><u>CSF:</u> May be stored at 2 to 8°C for short periods (up to 1 month). Please avoid freeze/thaw cycles.</p>
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	7 days or 24 hours as requested* (see <i>Additional Information</i> )
<b>*Additional Information</b>	For same-day STAT testing (BC only), please call us at 604-822-7175 prior to sample send out. Sample must be received at our laboratory <u>before</u> 2pm of that day to qualify for this service or it will be run the next day.



Name of test	<b><i>Anti-glutamate receptor (type NMDA) antibodies</i></b>
Abbreviations, alternate names	NMDAR Ab
Methodology	Commercial fixed cell-based assay (Euroimmun)
Test requirements*	<p><i>Specimen type: CSF and/or Serum* (see Additional Information)</i></p> <p>Minimum volume: 1 mL Preferred volume: 5 mL</p> <p><i>Other rejection criteria: grossly icteric or lipemic serum</i></p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
Specimen collection	<p>No patient preparation is required for sample collection.</p> <p><u>Serum:</u> Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5ml serum.</p> <p><u>CSF:</u> Collect at least 1 mL into a sterile tube.</p>
Specimen handling	<p><u>Serum:</u> Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.</p> <p><u>CSF:</u> Samples may be stored at 2 to 8°C for short periods (up to 1 month) but is preferred to be sent as soon as possible and to avoid freeze/thaw cycles.</p>
Specimen stability	<p><u>Serum:</u> May be stored at 2to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)</p> <p><u>CSF:</u> May be stored at 2 to 8°C for short periods (up to 1 month). Please avoid freeze/thaw cycles.</p>
Testing frequency	Once a week
Turnaround time	14 days or 24 hours as requested* (see <i>Additional Information</i> )
*Additional Information	For same-day STAT testing (BC only), please call us at 604-822-7175 prior to sample send out. Samples must be received at our laboratory <u>before</u> 2pm of that day to qualify for this service or it will be run the next day. STAT Testing can be done on CSF only, or CSF with accompanying serum, but <u>not</u> serum alone.

<b>Name of test</b>	<b><i>Anti-voltage-gated potassium channel (VGKC) associated protein antibodies (LGI1 &amp; CASPR2 Ab)</i></b>
<b>Abbreviations, alternate names</b>	VGKC Ab, LGI1 Ab, CASPR2 Ab
<b>Methodology</b>	Commercial fixed cell-based assay (Euroimmun)
<b>Test requirements</b>	<p><i>Specimen type:</i> CSF and/or Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> grossly icteric or lipemic serum</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><u>Serum:</u> Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p> <p><u>CSF:</u> Collect at least 1ml into a sterile tube.</p>
<b>Specimen handling</b>	<p><u>Serum:</u> Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.</p> <p><u>CSF:</u> Samples may be stored at 2 to 8°C for short periods (up to 1 month) but is preferred to be sent as soon as possible and to avoid freeze/thaw cycles.</p>
<b>Specimen stability</b>	<p><u>Serum:</u> May be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)</p> <p><u>CSF:</u> May be stored at 2 to 8°C for short periods (up to 1 month). Please avoid freeze/thaw cycles.</p>
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	7 days

<b>Name of test</b>	<b><i>Anti-gamma aminobutyric acid-B receptor antibodies</i></b>
<b>Abbreviations, alternate names</b>	GABA <sub>B</sub> Ab
<b>Methodology</b>	Commercial fixed cell-based assay (Euroimmun)
<b>Test requirements</b>	<p><i>Specimen type:</i> CSF and/or Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> grossly icteric or lipemic serum</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><u>Serum:</u> Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p> <p><u>CSF:</u> Collect at least 1 mL into a sterile tube.</p>
<b>Specimen handling</b>	<p><u>Serum:</u> Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.</p> <p><u>CSF:</u> Samples may be stored at 2 to 8°C for short periods (up to 1 month) but is preferred to be sent as soon as possible and to avoid freeze/thaw cycles.</p>
<b>Specimen stability</b>	<p><u>Serum:</u> May be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)</p> <p><u>CSF:</u> May be stored at 2 to 8°C for short periods (up to 1 month). Please avoid freeze/thaw cycles.</p>
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	14 days

Name of test	<b><i>Anti-Dipeptidyl–Peptidase–Like Protein-6 antibodies</i></b>
Abbreviations, alternate names	DPPX Ab
Methodology	Commercial fixed cell-based assay (Euroimmun)
Test requirements	<p><i>Specimen type:</i> CSF and/or Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> grossly icteric or lipemic serum</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
Specimen collection	<p>No patient preparation is required for sample collection.</p> <p><u>Serum:</u> Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p> <p><u>CSF:</u> Collect at least 1 mL into a sterile tube.</p>
Specimen handling	<p><u>Serum:</u> Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.</p> <p><u>CSF:</u> Samples may be stored at 2 to 8°C for short periods (up to 1 month) but is preferred to be sent as soon as possible and to avoid freeze/thaw cycles.</p>
Specimen stability	<p><u>Serum:</u> May be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)</p> <p><u>CSF:</u> May be stored at 2 to 8°C for short periods (up to 1 month). Please avoid freeze/thaw cycles.</p>
Testing frequency	Once a week
Turnaround time	14 days

<b>Name of test</b>	<b><i>Paraneoplastic (Neuronal) antibody panel</i></b> <b><i>(Amphiphysin, Ri, Yo, Hu, CV2 (CRMP5), Recoverin, SOXL, Ticn, Zic4, GAD65, Tr (DNER), PNMA2 (Ma2/Ta))</i></b>
<b>Abbreviations, alternate names</b>	Paraneoplastic neurological syndrome (PNS) Ab
<b>Methodology</b>	Immunoblot and fixed cell-based assay with reflex rat brain immunohistochemistry
<b>Test requirements</b>	<i>Specimen type:</i> Serum Minimum volume: 1 mL Preferred volume: 5 mL  <i>Other rejection criteria:</i> None  Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.
<b>Specimen collection</b>	No patient preparation is required for sample collection.  Serum: Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.
<b>Specimen handling</b>	Serum: Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
<b>Specimen stability</b>	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	7 days

<b>Name of test</b>	<b><i>Chronic Inflammatory Demyelinating Polyneuropathy Antibody Screen (NF140, NF155, NF186, CNTN1, CASPR1)</i></b>
<b>Abbreviations, alternate names</b>	CIDP Ab panel
<b>Methodology</b>	Fixed cell-based assay
<b>Test requirements</b>	<p><i>Specimen type:</i> Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> grossly icteric serum</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p>Serum: Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
<b>Specimen handling</b>	Serum: Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
<b>Specimen stability</b>	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at -20°C for longer periods of time (months)
<b>Testing frequency</b>	Once every two weeks
<b>Turnaround time</b>	21 days

<b>Name of test</b>	<b><i>Phosphorylated-tau-217</i></b>
<b>Abbreviations, alternate names</b>	pTau217
<b>Methodology</b>	Simoa® assay or Lumipulse® assay
<b>Test requirements</b>	<p><i>Specimen type:</i> Plasma  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> Plasma thawed upon arrival</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><i>Blood collection tubes:</i>  <b>Plasma</b>, use K2 EDTA lavender-top vacutainer tubes.</p> <p>Draw blood in collection tube(s) enough for a total of 1 to 5 mL plasma.</p>
<b>Specimen handling</b>	Spin collection tubes, pool plasma (if necessary) and store refrigerated. Plasma samples may be stored after collection at 2 to 8°C but must be stored at -80°C if the sample will not be shipped immediately.
<b>Specimen stability</b>	Plasma samples stored at 2 to 8°C must be received at the laboratory within 48 hours of collection. If batch shipping, samples must be frozen (-80°C preferred) and shipped on dry ice. Samples should stay frozen until transport.
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	8 days

<b>Name of test</b>	<b><i>Apolipoprotein E</i></b>
<b>Abbreviations, alternate names</b>	APOE
<b>Methodology</b>	TaqMan™ Assay
<b>Test requirements</b>	<p><i>Specimen type:</i> Whole blood  Minimum volume: 2 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> None</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><i>Blood collection tubes:</i>  For <b>whole blood</b>, use K2 EDTA lavender-top vacutainer tubes.</p> <p>Draw blood in collection tube(s) enough for a total of 2 to 5 mL of whole blood.</p>
<b>Specimen handling</b>	Samples may be stored at 2 to 8°C for 2 days but is preferred to be sent as soon as possible.
<b>Specimen stability</b>	Samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months).
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	7 days



<b>Name of test</b>	<b><i>Amyloid-beta 42/40</i></b>
<b>Abbreviations, alternate names</b>	A $\beta$ 42/40
<b>Methodology</b>	Lumipulse® assay
<b>Test requirements</b>	<p><i>Specimen type:</i> CSF  Minimum volume: 1 mL  Preferred volume: 2 mL</p> <p><i>Other rejection criteria:</i> CSF thawed upon arrival</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><i>CSF collection tubes:</i>  For <b>CSF</b>, use 63.614.625 Sarstedt tubes.</p> <p>Draw CSF in a minimum of 2 collection tube(s) enough for a minimum of 1.5 mL of CSF in each tube.</p>
<b>Specimen handling</b>	Aliquot (before freezing) into multiple 5 mL Sarstedt tubes. Freeze immediately after aliquoting (-80°C preferred). Avoid freeze-thaw cycles or multiple tube transfers.
<b>Specimen stability</b>	CSF samples <u>must</u> be stored after collection at -80°C, preferentially for a minimum of 1 hour. Samples should stay frozen until transported and shipped on dry ice.
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	14 days

<b>Name of test</b>	<b><i>Neurofilament Light Chain</i></b>
<b>Abbreviations, alternate names</b>	NfL
<b>Methodology</b>	Lumipulse® assay
<b>Test requirements</b>	<p><i>Specimen type: CSF</i>  Minimum volume: 1 mL  Preferred volume: 2 mL</p> <p><i>Specimen type: Plasma</i>  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Specimen type: Serum</i>  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria: Sample thawed upon arrival</i></p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><u>CSF</u>: Use 63.614.625 Sarstedt tubes. Draw CSF in a minimum of 2 collection tube(s) enough for a minimum of 1.5 mL of CSF in each tube.</p> <p><u>Plasma</u>: Draw blood in K2 EDTA lavender-top vacutainer tube(s) enough for a total of 1 to 5 mL plasma.</p> <p><u>Serum</u>: Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
<b>Specimen handling</b>	<p>For CSF, aliquot (before freezing) into multiple 5 mL Sarstedt tubes. Freeze immediately after aliquoting (-80°C preferred). Avoid freeze-thaw cycles or multiple tube transfers.</p> <p>For plasma, spin collection tubes, pool plasma (if necessary) and store refrigerated. Samples must be received at the laboratory within 48 hrs of collection. If batch shipping, samples must be frozen (-80°C preferred) and shipped on dry ice.</p>

	For serum, spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
<b>Specimen stability</b>	CSF <u>must</u> be stored after collection at -80°C, preferentially for a minimum of 1 hour. Samples should stay frozen until transported and shipped on dry ice.  Plasma and serum samples stored at 2 to 8°C must be received at the laboratory within 48 hours of collection. If batch shipping, samples must be frozen (-80°C preferred) and shipped on dry ice. Samples should stay frozen until transport.
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	8 days for plasma/serum or 14 days for CSF

Name of test	<b><i>Phosphorylated-tau-181</i></b>
Abbreviations, alternate names	pTau181
Methodology	Lumipulse® assay
Test requirements	<p><i>Specimen type:</i> CSF  Minimum volume: 1 mL  Preferred volume: 2 mL</p> <p><i>Other rejection criteria:</i> CSF thawed upon arrival</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
Specimen collection	<p>No patient preparation is required for sample collection.</p> <p><i>CSF collection tubes:</i>  For <b>CSF</b>, use 63.614.625 Sarstedt tubes.  Draw CSF in a minimum of 2 collection tube(s) enough for a minimum of 1.5 mL of CSF in each tube.</p>
Specimen handling	Aliquot (before freezing) into multiple 5 mL Sarstedt tubes. Freeze immediately after aliquoting (-80°C preferred). Avoid freeze-thaw cycles or multiple tube transfers.
Specimen stability	CSF samples <u>must</u> be stored after collection at -80°C, preferentially for a minimum of 1 hour. Samples should stay frozen until transported and shipped on dry ice.
Testing frequency	Once a week
Turnaround time	14 days

<b>Name of test</b>	<b>Total tau</b>
<b>Abbreviations, alternate names</b>	tTau
<b>Methodology</b>	Lumipulse® assay
<b>Test requirements</b>	<p><i>Specimen type:</i> CSF  Minimum volume: 1 mL  Preferred volume: 2 mL</p> <p><i>Other rejection criteria:</i> CSF thawed upon arrival</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><i>CSF collection tubes:</i>  For <b>CSF</b>, use 63.614.625 Sarstedt tubes.</p> <p>Draw CSF in a minimum of 2 collection tube(s) enough for a minimum of 1.5 mL of CSF in each tube.</p>
<b>Specimen handling</b>	Aliquot (before freezing) into multiple 5 mL Sarstedt tubes. Freeze immediately after aliquoting (-80°C preferred). Avoid freeze-thaw cycles or multiple tube transfers.
<b>Specimen stability</b>	CSF samples <u>must</u> be stored after collection at -80°C, preferentially for a minimum of 1 hour. Samples should stay frozen until transported and shipped on dry ice.
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	14 days

<b>Name of test</b>	<b><i>Glial fibrillary acidic protein</i></b>
<b>Abbreviations, alternate names</b>	GFAP
<b>Methodology</b>	Lumipulse® assay
<b>Test requirements</b>	<p><i>Specimen type:</i> Plasma  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> Plasma thawed upon arrival</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p><i>Blood collection tubes:</i>  <b>Plasma</b>, use K2 EDTA lavender-top vacutainer tubes.</p> <p>Draw blood in collection tube(s) enough for a total of 1 to 5 mL plasma.</p>
<b>Specimen handling</b>	Spin collection tubes, pool plasma (if necessary) and store refrigerated. Plasma samples may be stored after collection at 2 to 8°C but must be stored at -80°C if the sample will not be shipped immediately.
<b>Specimen stability</b>	Plasma samples stored at 2 to 8°C must be received at the laboratory within 48 hours of collection. If batch shipping, samples must be frozen (-80°C preferred) and shipped on dry ice. Samples should stay frozen until transport.
<b>Testing frequency</b>	Once a week
<b>Turnaround time</b>	8 days

<b>Name of test</b>	<b><i>Low-density lipoprotein receptor-related protein 4 antibodies</i></b>
<b>Abbreviations, alternate names</b>	LRP4 Ab
<b>Methodology</b>	In-house fixed cell-based assay (CBA)
<b>Test requirements</b>	<p><i>Specimen type:</i> Serum  Minimum volume: 1 mL  Preferred volume: 5 mL</p> <p><i>Other rejection criteria:</i> none</p> <p>Samples must be received with a completed lab requisition with, at minimum, patient information (name, DOB, provincial health care number), ordering physician, and requesting laboratory information.</p>
<b>Specimen collection</b>	<p>No patient preparation is required for sample collection.</p> <p>Draw blood in tube(s) with SST activator (gold-top) enough for a total of 1 to 5 mL serum.</p>
<b>Specimen handling</b>	Spin SST tube(s), pool serum (if necessary), freeze, then batch for delivery on ice packs.
<b>Specimen stability</b>	Serum samples may be stored at 2 to 8°C for up to 1 week or stored at –20°C for longer periods of time (months)
<b>Testing frequency</b>	Once every two weeks
<b>Turnaround time</b>	21 days