

# Serology and Molecular Testing Requisition

Scanning Label or Accession # (lab only)

Edmonton Phone 780.407.7121 Fax 780.407.3864 Calgary Phone 403.944.1200 Fax 403.270.2216  
**Microbiologist/Virologist-on-Call 780.407.8822 Microbiologist/Virologist-on-Call 403.944.1200**

Refer to APL Test Directory for detailed information: <http://ahsweb.ca/lab/apl-td-lab-test-directory>  
 For Zoonotic Infections (eg. Mosquito-borne, tick-borne) use 20087 Zoonotic Testing Requisition

<b>Patient</b>	PHN	Expiry: _____	Date of Birth (dd-Mon-yyyy)		
	Legal Last Name		Legal First Name		Middle Name
	Alternate Identifier	Preferred Name	<input type="checkbox"/> Male	<input type="checkbox"/> Female	Phone
			<input type="checkbox"/> Non-binary	<input type="checkbox"/> Prefer not to disclose	
Address		City/Town	Prov	Postal Code	

<b>Provider(s)</b>	Authorizing Provider Name (last, first, middle)		Copy to Name (last, first, middle)		Copy to Name (last, first, middle)
	Address		Phone	Address	Address
	CC Provider ID	CC Submitter ID	Legacy ID	Phone	Phone
	Clinic Name			Clinic Name	Clinic Name

<b>Collection</b>	Date (dd-Mon-yyyy)	Time (24 hr)	Location	Collector ID	Outbreak (EI) if applicable (yyyy-###)
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<b>Specimen/Type Source - Specify</b>					
<input type="checkbox"/> Blood	<input type="checkbox"/> Bone Marrow	<b>Fluid</b>	<input type="checkbox"/> CSF	<input type="checkbox"/> Auger Suction	<input type="checkbox"/> Bronchoalveolar Lavage (BAL)
<b>Tissue</b>	<input type="checkbox"/> Autopsy (specify) _____	<input type="checkbox"/> Biopsy (specify) _____	<input type="checkbox"/> Eye (Aqueous)	<input type="checkbox"/> Eye (Vitreous)	<input type="checkbox"/> Nasopharyngeal
			<input type="checkbox"/> Urine	<b>Swab</b>	<input type="checkbox"/> Buccal
				<input type="checkbox"/> Cervical	<input type="checkbox"/> Eye (specify) _____
				<input type="checkbox"/> Lip	<input type="checkbox"/> Mouth
				<input type="checkbox"/> Lesion (specify) _____	<input type="checkbox"/> Nasopharyngeal
				<b>Other</b> <input checked="" type="checkbox"/> Stool	<input type="checkbox"/> Rectal
				<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Throat
					<input type="checkbox"/> Urethral

**Provide Clinical History or Reason for Testing below - Testing will NOT proceed if this section is incomplete**

<b>Reason for Testing</b>	List Countries visited within past 3 months of symptom onset <b>OR</b> provide relevant travel history		<input type="checkbox"/> No Travel
Date of onset <b>OR</b> Duration of symptoms	<b>Date of return</b> (dd-Mon-yyyy)		Relevant immunizations and dates
<b>Symptoms (Check all that apply)</b>	Immunocompromised		
<input type="checkbox"/> Fever	<input type="checkbox"/> Rash (type) _____	<input type="checkbox"/> No	<input type="checkbox"/> Yes (details)
<input type="checkbox"/> Gastrointestinal	<input type="checkbox"/> Respiratory (specify) _____		
<input type="checkbox"/> Neurologic	<input type="checkbox"/> Other (specify) _____		
<input type="checkbox"/> Polyarthrits			

<b>Viral Serology</b>	<b>Parasite Serology</b>	<b>Molecular Testing (NAT/PCR)</b>
<input type="checkbox"/> CMV IgG (LAB467)	<input type="checkbox"/> Echinococcus (LAB1234)	<input type="checkbox"/> Bordetella Panel (LAB923)
<input type="checkbox"/> EBV Panel (LAB1731)	<input type="checkbox"/> Toxoplasma (LAB3758)	<input type="checkbox"/> CSF Viral Panel (LAB4153)
<input type="checkbox"/> HSV IgG (LAB507)	<b>Bacterial Serology</b>	<input type="checkbox"/> Enteroparechovirus (OP 0421837)
<input type="checkbox"/> Measles IgG (LAB657)	<input type="checkbox"/> Brucella (LAB6003)	<input type="checkbox"/> Eye Panel Conjunctivitis (LAB4156)
<input type="checkbox"/> Mumps IgG (LAB160)	<input type="checkbox"/> Diphtheria antitoxin (LAB6012)	<input checked="" type="checkbox"/> Gastroenteritis Viral Panel (LAB1901)
<input type="checkbox"/> Parvovirus IgG (LAB4309)	<input type="checkbox"/> M. pneumoniae (LAB799)	<input type="checkbox"/> Hepatitis C RNA (LAB1834)
<input type="checkbox"/> Rubella IgG (LAB49602)	<input type="checkbox"/> Syphilis (LAB1197)	<input type="checkbox"/> HSV/VZV (OP 0421955)
<input type="checkbox"/> VZV IgG (LAB162)	<input type="checkbox"/> Tetanus antitoxin (LAB6038)	<input type="checkbox"/> HIV 1 Qualitative (LAB919)
<input type="checkbox"/> CMV (LAB4255)	<b>Fungal Serology</b>	<input type="checkbox"/> Measles Virus (LAB4313)
<input type="checkbox"/> Measles IgM (LAB4313)	<input type="checkbox"/> Blastomyces Antibody (LAB6001)	<input type="checkbox"/> Mumps Virus (LAB4307)
<input type="checkbox"/> Mumps IgM (LAB4307)	<input type="checkbox"/> Coccidioides Antibody (LAB791)	<input type="checkbox"/> Syphilis (T. pallidum) (OP 0474142)
<input type="checkbox"/> Parvovirus IgM (LAB800)	<input type="checkbox"/> Histoplasma Antibody (LAB6019)	<b>Restricted Molecular Testing</b>
<input type="checkbox"/> Rubella IgM (LAB865)	<input type="checkbox"/> Galactomannan Antigen (LAB1311)	<input type="checkbox"/> Adenovirus (OP 0421707)
<input type="checkbox"/> HIV Serology (LAB473)		<input type="checkbox"/> BK Virus (LAB13741)
		<input type="checkbox"/> CMV (OP 0421720)
		<input type="checkbox"/> EBV (LAB1373)
		<input type="checkbox"/> HBV DNA (LAB951)
		<input type="checkbox"/> HIV 1 Viral Load (LAB919)
		<input type="checkbox"/> JC Virus (LAB9779)
		<input type="checkbox"/> Toxoplasma (OP 0474134)

**Specify Other Serology and Molecular Tests**

## Do Not Submit this page

### Guidance Notes

The Tables and notes below provide supplementary information on the tests, clinical indications, sample types and transport medium. Consult the Alberta Precision Laboratories Test Directory @ [Alberta Precision Laboratories | Lab Services](http://albertahealthservices.ca) ([albertahealthservices.ca](http://albertahealthservices.ca)) for comprehensive information.

### Viral Serology:

IgM antibody testing can be helpful in diagnosing an acute symptomatic infection; therefore, testing **WILL ONLY BE PERFORMED** when symptoms and date of onset of illness are provided. Testing for IgM antibody in asymptomatic patients can result in false positives results. IgM antibody can persist for long periods; consult the Virologist-on-Call for help with interpretations. IgG antibody results from infection or immunization and for some infectious agents is also representative of immunity.

### Parasite and Fungal Serology:

Travel history, symptoms and date of onset or duration of illness are **MANDATORY** when sending samples to the National Reference Centre for Parasitology or other Reference Laboratories for testing.

### Molecular Detection [Nucleic Acid Testing (NAT)]:

Test	Usual Specimen(s)	Comments
Bordetella Panel	Nasopharyngeal swab ONLY in Regan-Lowe medium (Black charcoal based medium)	Testing includes <i>Bordetella pertussis</i>
Eye Viral Panels	Eye Panel (Conjunctivitis) - Swab Eye Panel (Chorioretinitis) - Fluid	Swab Panel – HSV, VZV, adenovirus and enterovirus Fluid Panel – CMV, HSV, VZV, Toxoplasma gondii
CSF Viral panel	Minimum volume = 0.5 mL CSF	Panel includes HSV/VZV and entero/parechovirus testing
Entero/parechovirus	Stool in sterile container, NO preservative or transport medium,	Detection of polio and non-polio enteroviruses causing acute flaccid paralysis – send stool and throat swab
	Lesion swab in Universal Transport Medium	Some enteroviruses, e.g., coxsackievirus, cause vesicular skin lesions, in these cases a swab from the lesion should be collected
Gastroenteritis Viral panel	Stool in sterile container (NO preservative or transport medium)	For outbreaks obtain an EI number through the zone Medical Officer of Health or designate
Herpes simplex & varicella zoster	Lesion swab in Universal Transport Medium	Multiplex PCR assay can distinguish between HSV type 1, type 2 and varicella-zoster
HCV RNA (hepatitis C)	Serum SST vacutainer x 2	HCV RNA confirmatory testing is automatically performed on the residual serum from a new case screening positive for HCV antibody. For suspected re-infections or to monitor treatment progress specify the reason for the request to prevent cancellation
HIV 1 NAT (QUAL)	EDTA blood (Lavender top vacutainer) Remote users - send Plasma Preparation tubes (PPT)	To verify the diagnosis of HIV, when the HIV immunoblot is reported indeterminate or negative
Measles	Nasopharyngeal swab in Universal Transport Medium AND urine in sterile container Blood for measles serology	MUST notify zone Medical Officer of Health of suspected cases
Mumps	Buccal swab in Universal Transport Medium Blood for mumps serology	Send urine only if individual has orchitis/oophoritis
Syphilis	Lesion swab in Universal Transport Medium Also send blood for syphilis serology	Testing can be combined with herpes simplex detection

### Restricted Molecular Testing:

Tests listed below are for diagnosis and monitoring in transplant and immunocompromised patients or to help clarify the diagnosis in some complex clinical scenarios. When requesting, **MUST** provide clinical indication or reason for testing.

Test/Virus	Usual Indications	Usual Specimen
HIV 1 Viral Load	Treatment monitoring	EDTA blood x 2 (Lavender top vacutainer) Remote users - send Plasma Preparation tubes (PPT) x 2
	Refer to the APL Test Directory for information on testing and routing to the designated laboratory	
HIV proviral DNA	Primarily to diagnose HIV in the newborn Sent to HIV Reference Lab (Winnipeg) Monday to Thursday. Do NOT send samples on Thursday, Friday, weekends or statutory holiday, to allow for shipping within the required 24 hr timeline.	EDTA blood
HBV DNA (hepatitis B)	Determination of viremia or treatment monitoring	EDTA blood x 2
Adenovirus, Cytomegalovirus, Epstein-Barr virus	Primarily for monitoring in transplant/significantly immunocompromised patients	EDTA blood
JC virus	As above	CSF
BK virus	As above	EDTA blood & Urine

### Hepatitis Markers – abbreviations and usual indications for testing

HAV IgG	Hepatitis A IgG	Past infection or vaccination response
HAV IgM	Hepatitis A IgM	Recent infection
HBsAb	Antibody to hepatitis B surface antigen	Immunity status
HBsAg	Hepatitis B surface antigen	Screening for acute or chronic infection
HBc Total Ab	Total antibody to hepatitis B	Exposure at undetermined time
HBc IgM Ab	IgM antibody to HBV core	Recent infection
HBe Ab OR HBe Ag	Antibody to HBV e antigen OR HBV e antigen	Prognostic markers for HBV infection