

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|---------------------------------------|-------------------------------------|--|---|---|---|---|--|
| 14-3-3 Protein – see CJD | | | | | | | |
| Adenovirus PCR Urine | Molecular testing - qualitative | | Order will be reviewed by a IH microbiologist | Optimal specimen: Urine (1mL) in sterile screw capped container Other specimens (body fluid, eye swabs (viral), bronch/naso washes) - must be approved by microbiologist | Store and ship refrigerated to XSPV (St Paul's Hospital- Virology) | ADENOPCR / Adenovirus PCR | |
| Adenovirus Viral Load | Molecular testing - quantitative | | Order will be reviewed by a IH microbiologist | Red top - 1 tube min 1mL | Store and ship refrigerated to XCHV (BC Children's Hospital- Virology) | ADENOVL / Adenovirus Viral Load | Requisition: BCCH Rapid Microbiology (including Virology) |
| Anaplasma Serology | Serological testing | Ehrlichiosis, Human granulocytic ehrlichiosis, anaplasmosis | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | ANAPLAS / Anaplasma Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Anti-DNAse B | Serological testing | <i>S. pyogenes</i> serology, DNAse | This test is performed at BCCDC as a second line test to ASOT. It requires inclusion of clinically relevant information before processing. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | DNASE / Anti-DNAse B Titre | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Anti-Streptolysin O (ASOT) | Serological testing | <i>Streptococcus pyogenes</i> serology | When test/clinical results indicate, anti- DNAse B testing may also be performed | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | ASOTS / Anti-Streptolysin O (ASOT) | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Aspergillus Precipitins Test | Serological testing | Precipitans, Avian precipitans | Aspergillus serology test for diagnosis of allergic broncho-pulmonary aspergillosis | Gold top - 1 tube | Centrifuge and ship original tube. Package separately within XVGH cooler. Mark attention: G&L Diamond Health Care Centre-Jack Bell Research Centre | ASPPRECIP / Aspergillus Precipitins Test | |
| Avian precipitins- see Aspergillus | | | | | | | |

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| Non-Malaria blood parasite test | Examination of thick and thin films | Babesia, Filaria, Leishmania | Testing is performed in IH lab referral sites. PRH, KGH, VJH, RIH, or EKH. | EDTA blood, 1 tube Make 6 thin and 6 thick smears within 1 hour of collection and send with EDTA tube | Ship to performing site | Order in the Lab module : PARABL/ | |
| Babesia Serology | Serological testing | Babesiosis | Serology will be performed only after smears are negative from 3 different collection dates. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | BABESS / Babesia Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Bacillus anthracis culture | Culture in level 3 laboratory | Anthrax | **Potential Safety Hazard** Consult IH Microbiologist Acceptable specimens: Skin lesion – collect 2 swabs. Collect using swab with plastic shaft (from routine swab kit) and place into Amies Charcoal transport medium (used in Pertussis kits). Stool – collected into sterile container Bacterial isolate for confirmation of ID – TDG A shipping | Skin lesion – swabs (see specimen requirements) Stool – sterile screw capped container | Store and ship refrigerated to XCDC (culture isolate requires TDG Category A shipping) | *Orderable by LAB only BACANTC / Bacillus anthracis Culture | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Bartonella henselae PCR | Molecular testing | Cat scratch disease, <i>Bartonella henselae</i> , <i>Bartonella quintana</i> | Molecular detection of <i>Bartonella henselae</i> , and <i>Bartonella quintana</i> the bacteria that cause cat scratch disease. Acceptable specimen(s) are: Fluid/pus, lymph node tissue or heart tissue, joint fluid collected into sterile screw capped container, EDTA whole blood, CSF Order will be reviewed by a IH microbiologist | Optimal specimen: Tissue or fluid in sterile screw capped container, EDTA whole blood, CSF (1 mL) | Store and ship refrigerated to XCDC | BARTOSPCR / Bartonella henselae PCR | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Bartonella henselae Serology | Serological testing | Cat scratch serology | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | BARTOS / Bartonella henselae Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |

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| BK Virus PCR | Molecular testing for acute infection - qualitative | Polyoma Virus BK | Specimens are sent for testing dependant on the institute that is following the patient: SPH (St.Paul's Hospital) BC C&W (BC Childrens – patients <19 years) (see also BK Virus Viral Load) Order will be reviewed by a IH microbiologist | SPH: EDTA plasma (collect 6mL) plus urine (sterile container) collected on the same day BC C&W: Urine midstream collected into a sterile container (optimal 1 mL) | St.Pauls Hospital: EDTA Centrifuge and aseptically remove plasma (min 3 mL) within 4 hours of collection. Store at -20°C and ship frozen to XSPV (St.Paul's Hospital – Virology) Urine: Store refrigerated and ship on ice pack BC C&W: Refrigerate urine and ship on ice (to be received within 48 hrs of collection) | BKVPCR / BKV PCR/Viral Load (St.Paul's) BKVPCRCH / BKV PCR/Viral Load (BC C&W) | |
| BK Virus PCR Viral Load | Molecular testing - quantitative | Polyoma Virus BK viral load, | Specimens are sent for testing dependant on the institute that is following the patient: SPH (St.Paul's Hospital) BC C&W (BC Childrens – patients <19 years) or Foothill's Hospital, Calgary Order will be reviewed by a IH microbiologist | Specimen(s): SPH: EDTA plasma (collect 6mL) Urine; must be shipped with EDTA plasma collected same day BC C&W: Whole blood (Red topped tube) - optimal 2 mL Foothills (Calgary) Urine 10 mL, EDTA plasma 4 mL or tissue. | St.Pauls Hospital: EDTA Centrifuge and aseptically remove plasma (min 2 mL) within 6 hours of collection. Store at -20°C and ship frozen to XSPV (St.Paul's Hospital – Virology) Urine: Store refrigerated and ship on ice pack BC C&W: Refrigerate blood tube and ship on ice (to be received within 48 hrs of collection) Foothills: Refrigerate specimen and ship on ice (to be received within 48 hrs of collection) | BKVPCR / BKV PCR/Viral Load (St.Paul's) BKVPCRCH / BKV PCR/Viral Load (BC C&W) BKVPCRCH / BKV PCR/Viral Load (Calgary) | |

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| Blastomyces serology | Serological testing | Blastomycosis | Testing for long standing infections. If acute infection submit with urine antigen (see below) Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | BLASTOS / Blastomyces Serology | Requisition: PHSa Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Blastomyces Antigen Urine | Antigen test | <i>Blastomyces dermatididis</i> , blastomycosis | Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | Urine (min 5mL) into sterile screw capped container | Store and ship refrigerated to XCDC | BLASTOUA / Blastomyces Antigen Urine | Requisition: PHSa Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Borrelia (Lyme) Serology | Serological testing | Lyme disease, Lyme serology, <i>Borrelia burgdorferi</i> serology | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | BORRIS / Borrelia (Lyme) Serology | Requisition: PHSa Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Borrelia (Lyme) PCR | Molecular testing | Lyme disease, <i>Borrelia burgdorferi</i> detection | Testing performed on CSF (1mL minimum), synovial/joint fluid, tissue Specimens for Borrelia PCR must be accompanied by serological testing. Order will be reviewed by a IH microbiologist | sterile screw capped container plus SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | BORRISPCR / Borrelia (Lyme) PCR | Requisition: PHSa Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Borrelia hermsii serology | Serological testing | Relapsing fever | Order will be reviewed by a IH microbiologist. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | BORRISHS / Borrelia hermsii Serology | Requisition: PHSa Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Borrelia hermsii PCR | Molecular testing | Relapsing fever | This test is orderable by lab only after consultation with IH microbiologist. Specimens for Borrelia PCR must be accompanied by serological testing. Order will be reviewed by a IH microbiologist. | CSF 1 mL or EDTA blood 5 mL | Store and ship refrigerated to XCDC | BORRISHSPCR / Borrelia hermsii PCR | Requisition: PHSa Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Botulism serology | | <i>Clostridium botulinum</i> serology | This testing is not available in BC. Consult IH microbiologist for testing options | | | | |
| Brucella serology | Serological testing | <i>Brucella</i> spp, brucellosis, undulant fever | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | BRUCES / Brucella Serology | Requisition: PHSa Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

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| Brucella spp culture | Culture in level 3 laboratory | <i>Brucella</i> spp, brucellosis, undulant fever | **Potential Safety Hazard** Consult IH Microbiologist Acceptable specimens: Blood culture vials, bone marrow, exudative material, tissue, CSF, body fluids | sterile screw capped container | Store and ship refrigerated to XCDC (Culture isolate requires TDG Category A shipping) | *Orderable by LAB only BRUCESC / Brucella Culture | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Burkholderia serology | Serological testing | <i>Burkholderia pseudomallei</i> , melioidosis, Whitmore's disease | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | BURKHS / Burkholderia Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Burkholderia pseudomallei culture | Culture in level 3 laboratory | <i>Burkholderia pseudomallei</i> , melioidosis, Whitmore's disease | **Potential Safety Hazard** Consult IH Microbiologist Acceptable specimens: Sputum: collect into sterile container Swab from abscess or lesion: Collect using swab with plastic shaft (from routine swab kit) and place into Amies Charcoal transport medium (used in Pertussis kits). Order will be reviewed by a IH microbiologist. | Sterile screw capped container or swab in charcoal transport medium | Store and ship refrigerated to XCDC (Culture isolate requires TDG Category A shipping) | *Orderable by LAB only BURKHSC / Burkholderia pseudomallei Culture | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Chikungunya virus serology | Serological testing | | Order will be reviewed by a IH microbiologist IgM antibody levels are highest 3 to 5 weeks after the onset of illness and persist for about 2 months. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | CHIKUS / Chikungunya Virus Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Chikungunya virus PCR | Molecular testing (RT PCR) | | Acceptable specimens: EDTA plasma or CSF Order will be reviewed by a IH microbiologist Only specimens collected during the first week after the onset of symptoms should be tested by both serological and molecular methods. | EDTA plasma – separate and store frozen CSF – sterile container | Store at -20 °C and ship frozen to XCDC (forwarded to NML) | *Orderable by LAB only CHIKUSPCR / Chikungunya Virus PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Chlamydia psittaci serology | Serological testing | | Order will be reviewed by a IH microbiologist Relevant clinical information required before testing will be done. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | CHLAMPS / Chlamydia psittaci Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

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| Chlamydia psittaci PCR | Molecular testing | | Acceptable specimen(s): BAL, nasopharyngeal aspirate or throat swab in universal transport media Sputum and CSF not optimal specimen types but will be processed Order will be reviewed by a IH microbiologist | Sterile screw capped container or Swab in universal transport medium (UTM) | Store at -20 °C and ship frozen to XCDC (forwarded to NML) | *Orderable by LAB only CHLAMPSPCR / Chlamydia psittaci PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Chlamydia trachomatis serology | | | Test not available at BCCDC or NML | | | | |
| Chlamydophila pneumoniae | | | Test not available at BCCDC or NML See Chlamydophila pneumonia PCR | | | | |
| Chlamydophila pneumonia PCR | Molecular testing | <i>Chlamydophila pneumophila</i> (combined with <i>Legionella pneumophila</i> and <i>Mycoplasma spp</i>), MAGPIX, CLM | Acceptable specimens: Sputum, Bronchial wash, tracheal aspirate - collected into sterile container. Order includes testing for <i>Mycoplasma pneumoniae</i> , <i>Chlamydophila pneumoniae</i> and <i>Legionella</i> species Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC | LAB Order Mnemonic/ OM Order Name: VIRRMAG/Virus Flu + Magpix-Bronc/Trach Magpix includes the following: Influenza/Parainfluenza/ RSV/Adenovirus/ Coronavirus/Bocavirus/ Rhinovirus/Enterovirus/ Human metapneumovirus and atypical bacterial pathogens Chlamydophila/ Legionella/ Mycoplasma | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Coccidioides serology | Serological testing | Coccidioides immitis, coccidioidomycosis | Testing for long standing infections. If acute infection submit with urine antigen (see below) Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | COCCIDIOS / Coccidioides Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

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| Coccidioides urine antigen | Antigen testing | <i>Coccidioides immitis</i> , coccidioidomycosis | <p>This test requires approval of IH microbiologist and should only be ordered if onset of symptoms have occurred within 7 days of return from endemic area or patient has significant immunosuppression Order serology testing as well</p> <p>In other clinical situations, the diagnostic test of choice is serology (IgM/IgG) Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist</p> | Urine (min 5mL) into sterile screw capped container plus SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | COCCIDIOUA / Coccidioides Antigen Urine | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Clostridium botulinum | Toxin testing | Botulism, infant botulism | <p>Adult patient: Acceptable Specimens: Suspected food in original container 200 g (or sterile screw capped container) 2 Stool (at least 25 g) collected into enteric transport medium Vomitius/stomach contents (at least 100 g) in sterile container Autopsy material (especially liver and gut contents) at least 100 g Blood (clotted) 30mL (at least 4 red topped tubes) collected before anti-toxin is administered</p> <p>Infant botulism: Acceptable specimens: Suspected food in original container 200 g (or sterile screw capped container) Stool (at least 25 g) collected into enteric transport medium Pooled enema samples (25 g) transferred into enteric transport medium</p> | Sterile screw capped container Or 4 red topped tubes | Store and ship refrigerated to XCDC | *Orderable by LAB only CLOBOTI / Clostridium botulinum toxin | PHSA Food Poisoning Requisition: See bottom of page for link |

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|---------------------------------|--|--|---|--|---|---|--|
| CJD - Creutzfeldt-Jakob Disease | Serological testing and detection of prion | 14-3-3 Protein, Tau Protein, RT-QuIC (Quaking Assay), Creutzfeldt-Jakob disease, CJD, Prion disease, Mad Cow disease | ** Safety Alert** Consult IH Microbiologist before specimen collection. Collect CSF (1-2 mL) into sterile screw capped container sealed with parafilm. Samples must have no visible blood. | Sterile screw capped tube | Send to XCDC laboratory (forwarded to NML) ASAP frozen on dry ice or at 4 degrees if no dry ice available. Note the duration of time at 4 degrees. Package by itself and label outside of TDG Category B container going to XCDC with “Do Not Open – Deliver directly to Virology Department” | CJDELISA / Cruetzfeldt-Jakob (CJD) CSF | NML Prion Disease Section CSF Protein Panel Requisition See bottom of page for link Please include ordering physician’s phone or fax number on requisition as well as fax number for KGH or RIH microbiology lab “attention microbiologist” |
| CMV Serology – Immune Status | Serology for immune status | CMV IgG, Cytomegalovirus serology | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | CMVIGG / CMV Immune Status Serology | PHSA Serology Screening Requisition See bottom of page for link |
| CMV Serology – Acute Infection | Serology for acute infection | CMV IgM, Cytomegalovirus serology TORCH | TORCH is no longer an orderable test in IHA. Specific serology should be ordered for investigation of congenital infections after consultation with pediatric ID or maternal/fetal specialist. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | CMVIGGM / CMV Acute Infection Serology | PHSA Serology Screening Requisition See bottom of page for link |
| CMV PCR | Molecular testing for congenital infection | Congenital CMV | Acceptable specimens: Patient ≤ 21 days – saliva Patient > 21days - urine (1.0 mL) collected into sterile container Order will be reviewed by a IH microbiologist | Saliva – collected with flocced swab into UTM Urine: Sterile screw capped container | Refrigerate and ship on ice (to be received within 48 hrs of collection) | CMVPCRCH / CMV PCR/Viral Load (BC C&W) | BC Children’s & Women’s Laboratory Virology Requisition See bottom of page for link |
| CMV PCR | Molecular testing - qualitative | | Specimens are sent for testing dependant on the institute that is following the patient: SPH (St.Paul’s Hospital) BC C&W (BC Childrens – patients <19 years) (see also CMV Virus Viral Load) Order will be reviewed by a IH microbiologist | SPH: EDTA plasma (collect 6mL) Centrifuge and aseptically remove plasma (min 3 mL) within 4 hours of collection or CSF (1 mL) BC C&W: CSF collected into a sterile container (0.3 - 0.5 mL), urine (0.5 – 1.0 mL) | St.Pauls Hospital: Plasma or CSF: Store at - 20°C and ship frozen to XSPV (St.Paul’s Hospital – Virology) BC C&W: Refrigerate CSF and/or urine and ship on ice (to be received within 48 hrs of collection) | CMVPCR / CMV PCR/Viral Load (St.Paul’s) CMVPCRCH / CMV PCR/Viral Load (BC C&W) | If testing at BC C&W: BC Children’s & Women’s Laboratory Virology Requisition See bottom of page for link |

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| CMV PCR Viral Load | Molecular testing – quantitative | | Specimens are sent for testing dependant on the institute that is following the patient: SPH (St.Paul's Hospital) BC C&W (BC Childrens – patients <19 years) or Foothill's Hospital, Calgary Order will be reviewed by a IH microbiologist | Specimen(s): SPH: EDTA plasma (collect 6mL) Centrifuge and aseptically remove plasma (min 2 mL) within 6 hours of collection or CSF (1 mL) BC C&W: Whole blood (Red topped tube) - optimal 2 mL Foothills (Calgary) EDTA plasma 4 mL. | St.Pauls Hospital: Plasma or CSF: Store at -20°C and ship frozen to XSPV (St.Paul's Hospital – Virology) BC C&W and Calgary: Refrigerate blood and ship on ice (to be received within 48 hrs of collection) | CMVPCR / CMV PCR/Viral Load (St.Paul's) CMVPCRCH / CMV PCR/Viral Load (BC C&W) CMVPCRFB / CMV PCR/Viral Load (Calgary) | If testing at BC C&W: BC Children's & Women's Laboratory Virology Requisition See bottom of page for link |
| Coxsackie Virus Serology | | Enterovirus | Serological testing for Coxsackie viruses (and other Enteroviruses) is not routinely available. Continue placing and receiving the order even though a specimen will NOT be collected. The order will auto-result with a canned comment and no further action is required. Order will be reviewed by a IH microbiologist | No specimen to be collected | | *Orderable by LAB only COXSACKIE/ Coxsackie Virus Serology | |
| Coxiella serology | Serological testing | Q fever, <i>Coxiella burnetii</i> | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | COXIES / Coxiella (Q Fever) Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Coxiella PCR | Molecular testing | Q fever, <i>Coxiella burnetii</i> | Acceptable specimen(s): EDTA whole blood (1x4 mL tube), Tissue or CSF (0.5 mL) into sterile screw capped container Order will be reviewed by a IH microbiologist | Sterile screw capped container or EDTA tube | Store and ship refrigerated to XCDC | *Orderable by LAB only COXIESPCR / Coxiella (Q Fever) PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Dengue virus serology | Serological testing | Breakbone fever | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | DENGUS / Dengue Fever Virus Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

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| Dengue fever virus PCR | Molecular for acute infection | Breakbone fever | Acceptable specimens: EDTA plasma or CSF Order will be reviewed by a IH microbiologist | EDTA plasma – separate and store frozen CSF – sterile container | Store at -20 °C and ship frozen to XCDC (forwarded to NML) Store at -20 °C and ship frozen | *Orderable by LAB only DENGUSPCR / Dengue Fever Virus PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Diphtheria Serology | Serological testing for Immunity | | Testing will be performed on patients < 17 years of age or organ transplant patients. <i>Exception: If request is for immunodeficiency testing and ordered by an immunologist. Collect and send the specimen with the requisition containing the 'pre-approved' sticker.</i> Orders will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | DIPHTHA / Diphtheria Serology (Immunity) | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Diphtheria Culture | Bacterial Culture (plus toxin testing) | <i>Corynebacterium diphtheria</i> | Acceptable specimens: Throat, nose, ear, skin Recommended throat and nose be submitted together. Collect using swab with plastic shaft (from routine swab kit) and place into Amies Charcoal transport medium (used in Pertussis kits). (Alternatively obtain a charcoal swab) Order will be reviewed by a IH microbiologist | Swab in charcoal transport medium | Store and ship refrigerated to XCDC | DIPHTHC / Diphtheria Culture | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Direct 16 S Sequencing PCR | Molecular testing for organism directly from specimen | Direct 16S | Require IH Microbiologist approval** Acceptable specimen: Tissue, aspirate or fluid collected into a sterile container | Sterile screw capped container | Store and ship refrigerated to XCDC | *Orderable by LAB only DIRECT16SS / Direct 16 S Sequencing PCR | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Direct ITS Sequencing PCR | Molecular testing for organism directly from specimen | Direct ITS | Require IH Microbiologist approval** Acceptable specimen: Tissue, aspirate or fluid collected into a sterile container | Sterile screw capped container | Store and ship refrigerated to XCDC | *Orderable by LAB only DIRECTITSS / Direct ITS Sequencing PCR | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Ebola Virus Serology | Serological testing | Ebola | ** Safety Alert** Consult IH Microbiologist before specimen collection. Special collection procedure in SoftTech must be followed. (CS 0039) | SST , 2 tubes (uncentrifuged) | Store and ship refrigerated as TDG Category A to XCDC (forwarded to NML) *Microbiologist must activate ERAP prior to sendout* | EBOLAS / Ebola Serology *SAFETY* | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

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| Ebola Virus PCR | Molecular testing for Ebola virus | Ebola virus | ** Safety Alert** Consult IH Microbiologist before specimen collection. Special collection procedure in SoftTech must be followed. (CS 0039) Collect EDTA blood – 2 tubes | EDTA blood – 2 tubes (uncentrifuged) | Store and ship refrigerated as TDG Category A to XCDC (forwarded to NML) *Microbiologist must activate ERAP prior to sendout* | EBOLA PCR / Ebola Virus PCR *SAFETY* | Requisition: PHAC Requisition for Special Pathogens See bottom of page for link |
| Echinococcus Serology | Serological testing | <i>Echinococcus granulosus</i> , Hydatidosis, hydatid cyst, Dog tapeworm | Travel history required on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | ECHINOS / Echinococcus Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Echinococcus identification | Examination for hooklets | Dog tapeworm, <i>Echinococcus granulosus</i> , <i>Echinococcus multilocularis</i> | Aspirated fluid from cyst or excised cyst sent in sterile container | Sterile container | Store and ship refrigerated to XCDC | PARAID / Parasite Identification | PHSA Parasitology Requisition: See bottom of page for link |
| Ehrlichia Serology | Serological testing | Ehrlichiosis | Travel history required on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | EHLICS / Ehrlichia Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Entamoeba histolytica stool antigen | Antigen testing | Amoebiasis, ELISA (Amoebiasis) | Collect fresh stool into sterile screw capped container (unpreserved) Also submit SAF preserved stool sample to confirm presence of <i>E.histolytica/dispar</i> Travel history required on requisition. Order will be reviewed by a IH microbiologist | Sterile screw capped container (plus enteric pathogen transport container) | Stool for antigen detection: Store at -20 °C and ship frozen to XCDC Stool for parasite exam: Store and ship refrigerated to XCDC | EHISTOSA / E histo (Amoebiasis) Ag Stool | PHSA Parasitology Requisition: See bottom of page for link |
| Entamoeba histolytica serology | Serological testing | Amoebiasis | Travel history required on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | EHISTOS / E histo (Amoebiasis) Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|-----------------------------------|---------------------------------|---|--|--|---|--|---|
| Entamoeba histolytica PCR | Molecular testing | Amoebiasis | Acceptable specimens: Tissue (unpreserved) or aspirate collected into sterile screw capped tube. If sufficient aspirated material, split sample in half into sterile container and SAF transport tube. Biopsy material (spleen, liver, lymph node) collected into sterile screw capped container. Order will be reviewed by a IH microbiologist | Sterile screw capped container (+/- SAF enteric pathogen transport) | Store and ship refrigerated to XCDC | *Orderable by LAB only EHISTOPCR / E histo (Amoebiasis) PCR | PHSA Parasitology Requisition: See bottom of page for link |
| EBV Serology – Immune Status | Serology for immune status | EBV IgG, Epstein Barr virus serology | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | EBVIGG / EBV Immune Status Serology | PHSA Serology Screening Requisition See bottom of page for link |
| EBV Serology – Acute Infection | Serology for acute infection | EBV IgM, Epstein Barr virus serology | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | EBVIGM / EBV Acute Infection Serology | PHSA Serology Screening Requisition See bottom of page for link |
| EBV PCR | PCR testing - qualitative | Epstein Barr virus detection | Specimens are sent for testing dependant on the institute that is following the patient: SPH (St.Paul's Hospital) BC C&W (BC Childrens – patients <19 years) (see also EBV Virus Viral Load) Order will be reviewed by a IH microbiologist | SPH: EDTA plasma (collect 6mL) Centrifuge and aseptically remove plasma (min 3 mL) within 4 hours of collection or CSF (1 mL) BC C&W: CSF collected into a sterile container (0.3 - 0.5 mL) | St.Pauls Hospital: CSF or plasma: Store at - 20°C and ship frozen to XSPV (St.Paul's Hospital – Virology) BC C&W: Refrigerate CSF and ship on ice (to be received within 48 hrs of collection) | EBVPCR / EBV PCR/Viral Load (St.Paul's) EBVPCRCH / EBV PCR/Viral Load (BC C&W) | If testing at BC C&W: BC Children's & Women's Laboratory Virology Requisition See bottom of page for link |
| EBV PCR Viral Load | PCR testing – quantitative | Epstein Barr virus detection | Specimens are sent for testing dependant on the institute that is following the patient: SPH (St.Paul's Hospital) BC C&W (BC Childrens – patients <19 years) or Foothill's Hospital, Calgary Order will be reviewed by a IH microbiologist | SPH: EDTA plasma (collect 6mL) Centrifuge and aseptically remove plasma (min 2 mL) within 6 hours of collection or CSF (1 mL) BC C&W: Whole blood (Red topped tube) - optimal 2 mL Foothills(Calgary): EDTA plasma 4 mL. | St.Pauls Hospital: CSF or Plasma: Store at - 20°C and ship frozen to XSPV (St.Paul's Hospital – Virology) BC C&W and Calgary: Refrigerate blood and ship on ice (to be received within 48 hrs of collection) | EBVPCR / EBV PCR/Viral Load (St.Paul's) EBVPCRCH / EBV PCR/Viral Load (BC C&W) EBVPCRFB / EBV PCR/Viral Load (Calgary) | If testing at BC C&W: BC Children's & Women's Laboratory Virology Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|---------------------------------|-------------------------------------|--|---|--|---|---|--|
| Fasciola serology | Serological testing | Liver fluke, <i>Fasciola hepatica</i> , fasciolosis | Include relevant travel history on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | FASCIOS / Fasciola Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Non-Malaria blood parasite test | Examination of thick and thin films | Babesia, Filaria, Leishmania | Testing is performed in IH lab referral sites. PRH, KGH, VJH, RIH, EKH or KBH. | EDTA blood, 1 tube Make 6 thin and 6 thick smears within 1 hour of collection and send with EDTA tube | Ship to performing site | Order in the Lab module PARABL/ | |
| Filaria Serology | Serological testing | Filariasis, <i>Wucharia bancrofti</i> , <i>Brugia malayi</i> , <i>Loa loa</i> , <i>Mansonella ozzardi</i> , <i>Mansonella perstans</i> , Elephantiasis, Loiasis, Onchocerciasis, Wucheriasis | Travel history required on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | FILARS / Filaria Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Francisella serology | Serological testing | Tularemia serology | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | FRANCS / Francisella (Tularemia) Serolog | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Francisella spp culture | Culture in level 3 laboratory | <i>Francisella tularensis</i> , tularemia | **Potential Safety Hazard** Consult IH Microbiologist Acceptable specimens: Biopsy from edge of lesion, lymph node biopsy, sputum – collected into sterile container Conjunctival swabs (2) – collected using wire shaft swab placed into Amies charcoal transport medium (pertussis kit) Throat swabs (2) – Collect using swabs with plastic shaft (from routine swab kit) and place into Amies charcoal transport medium (used in pertussis kits). Bacterial isolate for confirmation (TDG A) | Sterile screw capped container or two swabs in Amies charcoal transport medium | Store and ship refrigerated to XCDC (Culture isolate requires TDG Category A shipping) | FRANCSC / Francisella (Tularemia) Culture | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|--------------------------------------|---|--|---|---|--|--|---|
| Francisella spp PCR | Molecular testing | <i>Francisella tularensis</i> , tularemia | **Potential Safety Hazard** Consult IH Microbiologist Acceptable specimens: Biopsy – collected into sterile container | Sterile screw capped container | Store and ship refrigerated to XCDC | FRANCSPCR / Francisella (Tularemia) PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Galactomannan Antigen | Antigen test for invasive Aspergillosis | Galactomannan (Antigen) | Used to diagnosis of invasive Aspergillus infections in patients with a history of bone marrow transplant or acute leukemia. Optimal specimen is a bronchial lavage. Blood may be used for testing. Order will be reviewed by a IH microbiologist. | Bronchial lavage: (1 to 2 mL) into sterile screw capped container Blood: SST (gold top) blood tube 7ml minimum Allow to clot at room temperature. Refrigerate | If bronchial specimen can be sent to BCCH the same day as collection, then store refrigerated and ship on dry ice. Notify BCCH that the specimen will be arriving so that they can freeze the specimen asap. If specimen cannot be sent to BCCH on the same day as collection, then freeze within 24 hours of collection. Store at -20°C and ship frozen on dry ice. Ship blood refrigerated | GALACTOAG / Galactomannan Antigen | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Genital Mycoplasma/ Ureaplasma | Molecular testing | <i>Mycoplasma genitalium</i> , <i>Mycoplasma hominis</i> , <i>Ureaplasma urealyticum</i> , <i>Ureaplasma parvum</i> | Acceptable specimens: Urethral, urogenital, vaginal or rectal swab or urine collected into UTM (universal transport medium) Order will be reviewed by a IH microbiologist. | Flocked swab or urine in UTM | Store and ship refrigerated to XCDC (forwarded to NML) | *Orderable by LAB only GENMYCOPCR / Genital Mycoplasma /Ureaplasma | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Haemophilus ducreyi PCR | Molecular testing | Chancroid, H. ducreyi | Acceptable specimen(s): Swab from base of purulent ulcer. Collect using dry swab or flocked swab in UTM (universal transport medium). Aspirated purulent material from bubo collected into sterile container. Note: Include relevant travel or clinical history on requisition Order will be reviewed by a IH microbiologist | Dry swab or flocked swab in UTM Sterile screw capped container | Store at -20°C and ship frozen on dry ice to XCDC (forwarded to NML) | *Orderable by LAB only HAEMDUPCR / Haemophilus ducreyi PCR | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|-----------------------------------|--|---|---|--|---|--|--|
| Hanta virus serology | Serological testing | Hantaan virus, Sin Nombre virus, Hantavirus pulmonary syndrome (HPS), hemorrhagic fever with renal syndrome | **Safety Alert** Consult IH Microbiologist Special transport (TDG A) required (for all specimens collected) Do not centrifuge – ship intact SST tube Travel or contact/exposure history required on requisition Note: Testing requires IH microbiologist approval. | SST , 1 tube (uncentrifuged) | Store and ship refrigerated as TDG Category A to XCDC (forwarded to NML) | HANTAS / Hanta virus Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Hanta virus PCR | Molecular testing | Hantaan virus, Sin Nombre virus | ** Safety Alert** Consult IH Microbiologist Special transport (TDG A) required (for all specimens collected) Acceptable specimens: EDTA whole blood (4 mL tube) lung tissue or BAL in sterile container. Travel or contact/exposure history required | EDTA blood or Sterile screw capped container | Store and ship refrigerated as TDG Category A to XCDC (forwarded to NML) | HANTASPCR / Hanta Virus PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Helicobacter pylori Stool Antigen | Antigen testing | H.pylori antigen | Test will only be performed with a history of a positive serology or post treatment (≥ 2 weeks). In other cases, request the ordering physician contact the microbiologist on call for approval. Collect stool (5 g) into sterile container, specimen must be formed, not liquid. | Sterile screw capped container | Store at -20°C and ship frozen on dry ice to XCDC | HPYLORISA / H pylori Antigen Stool | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Helicobacter pylori Serology | Serological testing | H pylori serology | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | HPYLOIS / H pylori Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Helicobacter pylori culture | Culture | H pylori culture | **Special culture media needs to be prepared at testing site **Consult IH microbiologist Acceptable specimens: Gastric biopsy into sterile container | Sterile screw capped container | Store and ship refrigerated to XCDC | *Orderable by LAB only HPYLOSC / H pylori Culture | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Helicobacter pylori PCR | Molecular testing (PCR) for resistance | H pylori resistance testing, | Acceptable specimens: Gastric biopsy into sterile container Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC | *Orderable by LAB only HPYLOSPCR / H pylori Resistance PCR (CLR) | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|--------------------------------------|------------------------|---|--|--|--|--|---|
| Herpes (HSV) Serology Type 1&2 | Serological testing | Herpes simplex virus type 1&2 TORCH | Serological testing for Herpes specifies between type 1 and type 2. TORCH is no longer an orderable test in IHA. Specific serology should be ordered for investigation of congenital infections after consultation with pediatric ID or maternal/fetal specialist. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | HERPESIGG/ Herpes (HSV) Serology IgG | PHSA Serology Screening Requisition See bottom of page for link |
| Herpes B Virus serology | Serological testing | Monkey B virus, Macacine herpesvirus, herpesvirus simiae | ** Safety Alert** Consult IH Microbiologist before specimen collection. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated as TDG Category A to XCDC | HERPESVB / Herpes "B" Virus Sero *SAFETY* | PHSA Serology Screening Requisition See bottom of page for link |
| Herpes B Virus PCR | Molecular testing | Monkey B virus, Macacine herpesvirus, herpesvirus simiae | ** Safety Alert** Consult IH Microbiologist before specimen collection. Appropriate specimens: EDTA blood, saliva or lesion swabs in viral transport medium Contact history required. | EDTA blood or viral transport tube | Store and ship refrigerated as TDG Category A to XCDC (transferred to NML) | *Orderable by LAB only HERPESVBPCR / Herpes "B" Virus PCR *SAFETY* | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Histoplasma serology | Serological testing | Histoplasmosis, <i>Histoplasma capsulatum</i> , <i>Histoplasma duboisii</i> | Testing for long standing infections. If acute infection submit with urine antigen (see below) Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | HISTOPS/ Histoplasma Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Histoplasma Antigen Urine | Antigen test | Histoplasmosis, <i>Histoplasma capsulatum</i> , <i>Histoplasma duboisii</i> | Acceptable specimen: Urine (min 5 mL) in sterile container Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | Urine : sterile screw capped container | Store and ship refrigerated to XCDC | HISTOPUA/ Histoplasma Antigen Urine | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| HTL Virus I & II serology | Serological testing | Human T Lymphotropic Virus, Adult lymphoma/ leukemia (ATLL) | | SST, 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | HTLVS / HTL Virus I&II Serology IgG | PHSA Serology Screening Requisition See bottom of page for link |
| HTL Virus I & II PCR | Molecular testing | Human T Lymphotropic Virus, Adult lymphoma/ leukemia (ATLL) | Acceptable specimens: EDTA whole blood (2x 4mL tubes) Order will be reviewed by a IH microbiologist | EDTA whole blood (2 tubes) | Store and ship at room temperature to XCDC (forwarded to NML) | *Orderable by LAB only HTLVSPCR / HTL Virus I/II PCR | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|--------------------------------------|------------------------|---|---|---|--|--|--|
| Human Herpes Virus 6 PCR | Molecular testing | HHV6, Human herpesvirus 6, <i>Roseola infantum</i> | Acceptable specimens: CSF collected into sterile container, Blood - red topped tube (2 mL) Order will be reviewed by a IH microbiologist | Sterile screw capped container Or Red topped tube | Store and ship refrigerated to XCH | *Orderable by LAB only HHERP6PCR / Human herpesvirus- 6(HHV-6) PCR | BC Children's & Women's Laboratory Virology Requisition See bottom of page for link |
| Human Herpes Virus 8 PCR | Molecular testing | HHV8, Human herpesvirus 8, Kaposi's sarcoma | Acceptable specimens: EDTA whole blood (2x 4mL tubes) Order will be reviewed by a IH microbiologist | EDTA plasma Centrifuge and aseptically remove plasma (min 2 mL) within 6 hours of collection. | . Store at -20°C and ship frozen to XSPV (St.Paul's Hospital – Virology) | *Orderable by LAB only HHERP8PCR / Human herpesvirus- 8(HHV-8) PCR | |
| Human Papilloma Virus | Serological testing | | Note: There are no serological or immune status testing available for this virus. | | | | |
| Japanese Encephalitis Serology | Serological testing | | Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | JAPANES / Japanese Encephalitis Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| JC Virus PCR | Molecular Testing | JC Polyoma virus, John Cunningham virus | Acceptable specimen(s): CSF collected into sterile container Order will be reviewed by a IH microbiologist | CSF (sterile container) | CSF: Store refrigerated and ship on ice pack to XSPV (St.Paul's Hospital – Virology) | JCVPCRC / JC Virus PCR CSF | |
| Legionella Serology | Serological testing | <i>Legionella</i> spp, <i>Legionella</i> <i>pneumophila</i> | The preferred test to diagnose Legionella infection is Legionella urine antigen or a respiratory specimen for Legionella PCR. Legionella serology is not generally recommended and requires IH microbiologist approval. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | LEGIONS / Legionella Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Legionella urine antigen | Antigen testing | <i>Legionella</i> <i>pneumophila</i> | Testing for acute infection with <i>L.pneumophila</i> serogroup 1 Acceptable specimen: Urine (5 -10 mL) collected into sterile Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC | LEGIONUA / Legionella Antigen Urine | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|---------------------------------------|---|--|--|---|--|--|---|
| Legionella Culture | Bacterial culture | <i>Legionella pneumophila</i> | Orderable only by lab Acceptable specimens: Sputum, Bronchial wash, tracheal aspirate, lung tissue, pleural fluid – collect into sterile container Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC | *Orderable by LAB only LEGIONSC / Legionella Culture | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Legionella PCR | Molecular testing | <i>Legionella pneumophila</i> (combined with <i>Chlamydophila</i> and <i>Mycoplasma spp</i>), MAGPIX, CLM | Acceptable specimens: Sputum, Bronchial wash, tracheal aspirate - collected into sterile container. Note: for acute infection, order Legionella urine antigen Order includes testing for <i>Mycoplasma pneumoniae</i> , <i>Chlamydophila pneumoniae</i> and <i>Legionella species</i> Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC | LAB Order Mnemonic/ OM Order Name: VIRRMAG/Virus Flu + Magpix- Bronc/Trach Magpix includes the following: Influenza/Parainfluenza/RSV/ Adenovirus/Coronavirus/ Bocavirus/ Rhinovirus/Enterovirus/Human metapneumovirus and atypical bacterial pathogens Chlamydophila/Legionella/ Mycoplasma | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Non-Malaria blood parasite test | Examination of thick and thin films | Babesia, Filaria, Leishmania | Testing is performed in IH lab referral sites. PRH, KGH, VJH, RIH, EKH or KBH. | EDTA blood, 1 tube Make 6 thin and 6 thick smears within 1 hour of collection and send with EDTA tube | Ship to performing site | Order in the Lab module : PARABL/ | |
| Leishmania Serology | Serological Testing | <i>Leishmania donovani</i> , <i>Leishmania spp</i> ' leishmaniasis | Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | LEISHS / Leishmania Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Leishmania Culture | Culture | <i>Leishmania donovani</i> , <i>Leishmania spp</i> | Orderable only by lab **Special culture media needs to be prepared at testing site** Consult IH microbiologist before collection if possible Acceptable specimen(s): Biopsy material (spleen, liver, lymph node) collected into sterile container Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC | *Orderable by LAB only LEISHSC / | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|------------------------------------|------------------------------|---|---|--|--|--|--|
| Leishmania PCR | Culture | <i>Leishmania donovani</i> , <i>Leishmania spp</i> | Orderable only by lab Consult microbiologist before collection if possible Acceptable specimen(s): Biopsy material (spleen, liver, lymph node, pericardial tissue or fluid) collected into sterile container Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC | *Orderable by LAB only LEISHSPCR / | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Leptospira Serology | Serological Testing | Leptospirosis | Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | LEPTOS / Leptospira Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Leptospira PCR | Molecular Testing | Leptospirosis | Acceptable specimen(s): EDTA blood (1 tube), CSF (min volume 400 uL)- collected into sterile container Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | EDTA whole blood or sterile screw capped container | Store and ship refrigerated to XCDC (forwarded to NML) NML suggests overnight shipping. | *Orderable by LAB only LEPTOSPCR / Leptospira PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Lyme – see Borrelia | | | | | | | |
| Measles Serology – Immune Status | Serology for immune status | Measles IgG, Rubeola serology, Red measles | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | MEASLEIGG / Measles Immune Status Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Measles Serology – Acute Infection | Serology for acute infection | Measles IgM, Rubeola serology, Red measles | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | MEASLEIGGM / Measles Acute Infection Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Measles PCR | Molecular testing | <i>Rubeola</i> , Red measles | Acceptable specimen(s): Nasal swab (flocked swab in UTM), throat (viral swab), urine (50 mL) collected into sterile container, CSF (500 uL) into sterile container Order will be reviewed by a IH microbiologist | Swab in UTM, Viral swab, or sterile screw capped container | Store and ship refrigerated to XCDC | MEASLEPCR / Measles Virus PCR | PHSA Virology Requisition See bottom of page for link |
| Meningococcal Antibody Titre | Serological Testing | <i>Neisseria meningitidis</i> serology, Meningococcal Polysaccharide Antibody Titre | Testing will only be performed on patients who have received an organ transplant. Pre-vaccine and post-vaccine (2 weeks after) samples must be submitted Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum Pre and post vaccine | Store and ship refrigerated to XCDC (forwarded to reference lab) | MENINGOAB / Meningococcal Antibody Titre | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|-------------------------------------|---------------------------------|--|---|--|--|--|---|
| MERS-CoV Coronavirus PCR | Molecular testing | Middle East respiratory syndrome Coronavirus | ** Safety Alert** Consult IH Microbiologist before specimen collection. Acceptable specimen(s): Sputum, Bronchial wash, tracheal aspirate - collected into sterile container or nasopharyngeal swab into viral transport medium. Order will be reviewed by a IH microbiologist | Sterile screw capped container or viral transport swab | Store and ship refrigerated to XCDC (forwarded to NML) | *Orderable by LAB only MERSPCR / MERS-CoV Coronavirus PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Mumps Serology – Immune Status | Serology for immune status | Mumps IgG | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | MUMPSIGG / Mumps Immune Status Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Mumps Serology – Acute Infection | Serology for acute infection | Mumps IgM, | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | MUMPSIGM / Measles Acute Infection Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Mumps virus PCR | Molecular testing | Mumps | Acceptable specimen(s): Buccal or oral swab (viral swab), urine (50 mL) collected into sterile container, CSF (500 uL) into sterile container Order will be reviewed by a IH microbiologist | Viral swab, or sterile screw capped container | Store and ship refrigerated to XCDC | MUMPSPCR / Mumps Virus PCR | PHSA Virology Requisition See bottom of page for link |
| Mycoplasma Serology | | Mycoplasma IgM | Mycoplasma pneumoniae IgM serology is no longer available. If an acute infection is suspected, please submit a sputum or bronchoscopy specimen for Mycoplasma PCR (see below) Continue placing and receiving the order even though a specimen will NOT be collected. The order will auto-result with a canned comment and no further action is required. Order will be reviewed by a IH microbiologist | No collection | | MYCOPLIGGM/ Mycoplasma pneumoniae IgM Serology | |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|---|------------------------------|---|---|--|--|---|---|
| Mycoplasma pneumoniae PCR | Molecular testing | Atypical pneumonia, MCL PCR | Acceptable specimens: Sputum, Bronchial wash, tracheal aspirate - collected into sterile container. Order includes testing for Mycoplasma pneumoniae, Chlamydothila pneumoniae and Legionella species | Sterile screw capped container | Store and ship refrigerated to XCDC | LAB Order Mnemonic/OM Order Name: VIRRMAG/Virus Flu + Magpix-Bronc/Trach Magpix includes the following: Influenza/Parainfluenza/RSV/Adenovirus/Coronavirus/Bocavirus/Rhinovirus/Enterovirus/Human metapneumovirus and atypical bacterial pathogens Chlamydothila/ Legionella/ Mycoplasma | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |
| Paracoccidioides serology | Serological testing | <i>Paracoccidioides brasiliensis</i> | Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | PARACS / Paracoccidioides Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Paragonimus serology | Serological testing | Paragonimiasis, lung fluke | Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | PARAGS / Paragonimus Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Parvovirus B19 Serology – Immune Status | Serology for immune status | Parvovirus B19 IgG, Fifth disease serology | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | PARVOIGG / Parvovirus B19 Immune Status Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Parvovirus B19 Serology – Acute Infection | Serology for acute infection | Parvovirus B19 IgM, Fifth disease serology, | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | PARVOIGGM/ Parvovirus B19 Acute Infection Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Pertussis | Molecular testing | Whooping cough, <i>Bordatella pertussis</i> | Collect pernasal/nasopharyngeal sample using a wire shaft swab into Amies charcoal transport medium. MS Pertussis collection kits available from BCCDC | Wire shaft swab in charcoal medium | Store and ship refrigerated to XCDC | PERTUSSIS / Pertussis (Whooping Cough) | Requisition: PHSA Bacteriology & Mycology Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|---|------------------------|--|---|--|---|---|---|
| Polio Virus Serology | | Polio Immunity | Serology for polio diagnosis or immunity testing is no longer available. Continue placing and receiving the order even though a specimen will NOT be collected. The order will auto-result with the following comment and no further action will be required. "If clinical infection suspected, contact Medical Microbiologist on call to assist in arranging appropriate testing." | No collection | | *Orderable by LAB only POLIOIGG / Polio Virus Serology (Immunity) | |
| Polio virus PCR | Molecular Testing | Polio, <i>Poliovirus</i> types 1, 2 and 3 | Acceptable specimen(s): Stool – in sterile container (no additives). For best results obtain at least 2 specimens 24 hours apart ideally within 14 days of onset. Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store at -20°C and ship frozen to XCDC (forwarded to NML) | *Orderable by LAB only POLIOPCR / Polio Virus PCR | Requisition: PHSA Virology Requisition See bottom of page for link |
| Pneumocystis jiroveci (carinii) PCR | Molecular Testing | PJP PCR, PCP PCR, | Acceptable specimen(s): Bronchial Wash, or induced sputum Must be approved by IH Microbiologist | Sterile screw capped container | Store and ship refrigerated to XSTP | *Orderable by LAB only PJPPCR | |
| Rabies virus serology | Serological testing | Rabies, <i>Rabiesvirus</i> | Collect SST. Centrifuge and aliquot serum State reason for testing on requisition (eg. post vaccine) Order will be reviewed by a IH microbiologist | Serum 3.5 mL | Store and ship refrigerated to XCDC (forwarded to NML) | RABIES / Rabies Virus Serology | Requisition: PHSA Zoonotics Disease & Emerging Pathogens Requisition See bottom of page for link |
| Rabies virus PCR | Molecular testing | Rabies, <i>Rabiesvirus</i> | ** Safety Alert** Consult IH Microbiologist before specimen collection. Acceptable specimen(s): CSF, biopsy - hairline of neck, saliva - collected into sterile container. Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC | *Orderable by LAB only RABIESPCR / Rabies Virus PCR *SAFETY* | Requisition: PHSA Virology Requisition See bottom of page for link |
| Relapsing fever – See Borrelia | | | | | | | |
| Rickettsia (Rocky Mountain Spotted Fever Serology) | Serological testing | <i>Rickettsia rickettsii</i> , Rocky Mountain spotted fever, Brazilian spotted fever | Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | RICKERS / R.rickettsii (Rocky Mnt) Sero | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|---|---------------------------------|---|--|---|--|--|---|
| Rickettsia (Typhus Fever Serology) | Serological testing | <i>Rickettsia typhi</i> , Murine typhus, Typhus fever | Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | RICKERTS / R.typhi (Typhus Fever) Sero | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| RT-QuIC (Quaking assay) – see CJD | | | | | | | |
| Rubella Serology – Immune Status | Serology for immune status | <i>Rubella virus</i> , German measles | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | RUBELIGG / Rubella Immune Status Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Rubella Serology – Acute Infection | Serology for acute infection | <i>Rubella virus</i> , German measles TORCH | TORCH is no longer an orderable test in IHA. Specific serology should be ordered for investigation of congenital infections after consultation with pediatric ID or maternal/fetal specialist. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | RUBELIGGM / Rubella Acute Infection Serology | PHSA Serology Screening Requisition See bottom of page for link |
| Rubella virus PCR | Molecular Testing | <i>Rubella virus</i> , German measles | Acceptable specimen(s): Nasopharyngeal or throat swabs collected into viral transport medium or urine collected as soon as possible after rash onset (within 5 days). Specimens collected later will still be accepted however the assay sensitivity may be affected. Order will be reviewed by a IH microbiologist | Urine: Centrifuge at 2500xg for 15 min at 4 °C. Resuspend the sediment in 1-2 mL of viral transport medium (VTM) Swabs: Leave swab in viral transport medium for at least 1 hour, then remove and discard the swab. | Store and ship refrigerated to XCDC to be received within 48 hours of collection. Otherwise freeze and ship on dry ice. (forwarded to NML) | *Orderable by LAB only RUBELPCR / Rubella Virus PCR | Requisition: PHSA Virology Requisition See bottom of page for link |
| S100 Protein - see CJD | | | | | | | |
| Schistosoma Serology | Serological testing | <i>Bilharzia</i> , <i>Schistosoma</i> <i>mansoni</i> , <i>S. haematobium</i> , <i>S. japonicum</i> , Schistosomiasis | Note: include travel history on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to NML) | SCHISTOS / Schistosoma Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Streptococcus pneumoniae IgG antibodies | Serological testing | PN23 | Serological testing to determine immune competence. MSP approval required before shipping. If ordered by a doctor other than an immunologist, IH microbiologist must approve. | SST , 1 tube, >0.5mL | Store and ship refrigerated or frozen to Mayo Clinic | *Orderable by LAB only PNEIGG | Requisition: Mayo clinic General Request form See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|---------------------------|---------------------------------------|---|---|--|-------------------------------------|--|--|
| Strongyloides Serology | Serological testing | <i>Strongyloides stercoralis</i> , Strongyloidiasis | Note: include travel history on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | STRONGS / Strongyloides Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Strongyloides Parasite ID | Examination | <i>Strongyloides stercoralis</i> , Strongyloidiasis | Acceptable specimen(s): Feces in SAF preservative. Sputum or duodenal contents in sterile container Order will be reviewed by a IH microbiologist | SAF preservative container or Sterile screw capped container | Store and ship refrigerated to XCDC | STRONGID / Strongyloides Parasite ID | Requisition: PHSA Parasitology Requisition See bottom of page for link |
| Syphilis Screen | Serology | <i>Treponema pallidum</i> , TORCH | Screening by Enzyme Immunoassay. Testing algorithm will be followed including confirmatory testing (RPR, VDRL etc). TORCH is no longer an orderable test in IHA. Specific serology should be ordered for investigation of congenital infections after consultation with pediatric ID or maternal/fetal specialist. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | SYPHISC / Syphilis Screen EIA/RPR | PHSA Serology Screening Requisition See bottom of page for link |
| Syphilis VDRL | Serological testing – non-treponemal | <i>Treponema pallidum</i> , neurosyphilis, VDRL | Acceptable specimen: CSF (1 mL) in sterile tube Order will be reviewed by a IH microbiologist | Sterile screw capped tube | Store and ship refrigerated to XCDC | SYPHIVDRL / Syphilis (Treponema) VDRL CSF | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Syphilis FTA | Serological testing - treponemal | <i>Treponema pallidum</i> , neurosyphilis, FTA-ABS | Acceptable specimen: CSF (1 mL) in sterile tube Order will be reviewed by a IH microbiologist | Sterile screw capped tube | Store and ship refrigerated to XCDC | *Orderable by LAB only FTACSF / Syphilis (Treponema) FTA CSF | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Tau Protein – see CJD | | | | | | | |
| Tetanus Serology | Serological testing for immune status | <i>Clostridium tetani</i> | Testing will be performed on patients < 17 years of age or organ transplant patients. <i>Exception: If request is for immunodeficiency testing and ordered by an immunologist. Collect and send the specimen with the requisition containing the 'pre-approved' sticker.</i> Orders will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | TETANUS / Tetanus Serology (Immunity) | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|--------------------------------------|------------------------|---|---|--|---|--|---|
| Toxocara Serology | Serological testing | <i>Toxocara canis</i> , Toxocariasis | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | TOXOCS / Toxocara Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Toxoplasma Serology | Serological testing | <i>Toxoplasma gondii</i> TORCH | Order will be reviewed by a IH microbiologist TORCH is no longer an orderable test in IHA. Specific serology should be ordered for investigation of congenital infections after consultation with pediatric ID or maternal/fetal specialist. | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | TOXOPS / Toxoplasma Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Toxoplasma PCR | Molecular testing | <i>Toxoplasma gondii</i> , Toxoplasmosis | Acceptable specimen: CSF (0.5-1.0 mL) tissue, eye fluid (0.5-1.0 mL), amniotic fluid (0.5-1.0 mL) collected into a sterile container Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store and ship refrigerated to XCDC (forwarded to NML) | TOXOPPCR / Toxoplasma PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Trichinella Serology | Serological testing | <i>Trichinella spiralis</i> , Trichinellosis | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | TRICHIS / Trichinella Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Tropheryma (Whipples) PCR | Molecular testing | <i>Tropheryma whipplei</i> , Toxoplasmosis | Acceptable specimen: CSF (2.0 mL) or tissue collected into a sterile container Order will be reviewed by a IH microbiologist | Sterile screw capped container | Store at -20°C and ship frozen to XCDC (forwarded to NML) | WHIPPLESPCR / Tropheryma (Whipples) PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Trypanosoma (Chagas) Serology | Serological testing | <i>Trypanosoma cruzi</i> , American trypanosomiasis, Chagas' disease | Note: include travel history on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to reference lab) | TRYPACS / Trypanosoma (Chagas) Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Trypanosoma (African) Serology | Serological testing | <i>Trypanosoma brucei rhodesiense</i> , <i>Trypanosoma brucei gambiense</i> African trypanosomiasis, | Note: include travel history on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to reference lab) | TRYPANS / Trypanosoma (African) Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|---|------------------------|--|--|---|--|---|---|
| Varicella zoster Serology | Serological testing | Varicella zoster virus, VZV, Chickenpox, <i>Human herpesvirus 3</i> , Herpes Zoster virus | | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | VARICIGG / Varicella (VZV) Serology IgG | PHSA Serology Screening Requisition See bottom of page for link |
| Varicella (VZV) PCR | Molecular testing | Varicella zoster virus, VZV, Chickenpox, <i>Human herpesvirus 3</i> , Herpes Zoster virus | Acceptable specimen: CSF (250 µL), tissue, corneal scrapings collected into a sterile container or lesion swab /vesicle fluid collected into viral transport medium Order will be reviewed by a IH microbiologist | Sterile screw capped container Or swab in viral transport medium | Store and ship refrigerated to XCDC | VARICPCR / Varicella (VZV) PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| West Nile Virus Serology | Serological testing | WNV, Flavivirus, Arbovirus infections | Testing algorithm will be followed including confirmatory testing if required (sent to reference lab) If patient is an organ transplant patient – order Molecular testing (West Nile PCR) Note: Travel history is required on requisition Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | WESTNS / West Nile Virus (WNV) Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| West Nile Virus (WNV) PCR | Molecular testing | WNV, Flavivirus, Arbovirus infections | Acceptable specimen: CSF (250 µL) collected sterile screw capped container. EDTA plasma (7mL). Testing is offered seasonally, from June to the end of November. If testing requested outside season, travel history is required on requisition. Order will be reviewed by a IH microbiologist | Sterile screw capped container EDTA plasma (7 mL) | Store and ship refrigerated to XCDC | WESTNSPCR / West Nile Virus (WNV) PCR | Requisition: PHSA Virology Requisition See bottom of page for link |
| Whipples disease – see Tropheryma | | | | | | | |
| Yellow Fever Serology | Serological testing | YFV, Flavivirus, Arbovirus infections | Note: Include travel history on requisition. Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | YELLOWFS / Yellow Fever Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Yersinia pestis (Plague) Serology | Serological testing | Plague, <i>Yersinia pestis</i> | Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC | *Orderable by LAB only YERPESTISS / Yersinia pestis (Plague) Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

| Pathogen/ Disease | Testing | Additional Names | Specimen Requirements | Collection Container/Processing | Storage / Transport | Lab Order Mnemonic/ OM Order Name: | Additional Requisitions |
|-------------------------------------|----------------------------------|------------------------------------|---|--|--|---|---|
| Yersinia pestis (Plague) Culture | Culture in level 3 laboratory | Plague, <i>Yersinia pestis</i> | **Potential Safety Hazard** Consult IH Microbiologist Acceptable specimens: Blood culture vials, sputum or aspirate collected into sterile container Bacterial isolate for confirmation (TDG A) Order will be reviewed by a IH microbiologist | Blood culture vial Or Sterile screw capped container | Store and ship refrigerated to XCDC (Bacterial isolate must be shipped TDG A) | *Orderable by LAB only YERPESTISC / Yersinia pestis(Plague) Culture | Requisition: PHSA Bacteriology and Mycology Requisition See bottom of page for link |
| Zika virus serology | Serological testing | | **Consult IH microbiologist with any ordering questions** For detection of acute infection (acute onset of fever, maculopapular rash, arthralgia or conjunctivitis) with onset during or within 2 weeks of travel AND is currently symptomatic – order BOTH serology and PCR For detection of antibodies (resolved infection) – either no longer symptomatic or symptom onset > 10 days ago. For pregnant women with travel history and no symptoms of Zika virus infection during or within 2 weeks of travel Note: Provide travel and clinical history and information on pregnancy Order will be reviewed by a IH microbiologist | SST , 1 tube (uncentrifuged) or 2 ml serum | Store and ship refrigerated to XCDC (forwarded to reference lab) | ZIKA / Zika Virus Serology | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |
| Zika virus PCR | Molecular testing | | **Consult IH microbiologist with any ordering questions** For detection of acute infection (acute onset of fever, maculopapular rash, arthralgia or conjunctivitis) with onset during or within 2 weeks of travel AND is currently symptomatic – order BOTH serology and PCR Preferred specimen: EDTA plasma (1 tube) Upon microbiologist approval: - urine collected into sterile transport container - nasophayngeal swab collected into viral transport media Order will be reviewed by a IH microbiologist | EDTA, 1 4ml tube Sterile screw capped container or swab in viral transport medium | Store and ship refrigerated to XCDC (forwarded to reference lab) | ZIKAPCR / Zika Virus PCR | Requisition: PHSA Zoonotics Diseases & Emerging Pathogens Requisition See bottom of page for link |

Serology, PCR and Viral Detection Collections

Requisition Links:

PHSA Zoonotics Diseases & Emerging Pathogens Requisition:

<http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Forms/Labs/ZEPReq.pdf>

PHSA Bacteriology and Mycology Requisition:

<http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Forms/Labs/BAMReq.pdf>

PHSA Food Poisoning Requisition:

<http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Forms/Labs/FoodPoisoningReq.pdf>

PHSA Virology Requisition:

<http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Forms/Labs/VI%20Req.pdf>

PHSA Serology Screening Requisition:

<http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Forms/Labs/SerologyReq.pdf>

PHSA Parasitology Requisition:

<http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Forms/Labs/ParaReq.pdf>

BC Children's & Women's Laboratory Virology Requisition:

http://www.elabhandbook.info/PHSA/Files/RequisitionForms%2f1_20130618_045956_CW%20Virology%20requisition%2000051977.pdf

NML Prion Disease Section CSF Protein Panel Requisition

<https://cnphi.canada.ca/gts/laboratory/1025>

PHAC Requisition for Special Pathogens

<https://cnphi.canada.ca/gts/laboratory/1021>

Mayo Clinic General Request Form

<http://www.mayomedicallaboratories.com/it-mmfiles/general-request-form.pdf>