

| Test Name   | Laboratory        | Specimen Type  | Test Schedule   | Reference Range | Effective Date | Comments |
|---|-------------------|--|---|-----------------|----------------|----------|
| E.coli 0157:H7 Toxin  | Microbiology (VH) | Faeces<br>MICROBIOLOGY<br>REQUISITION<br>For full work up:<br>PUBLIC HEALTH<br>LABORATORY<br>TEST<br>REQUISITION | <b>Done by special request only.</b><br>This test will be performed only after consultation and approval by a Medical Microbiologist.<br><br>Referred weekdays to the Public Health Laboratory. |                 |                |          |
| E1 (see <u>Estrone, Serum/Plasma</u> )                                |                   |  |   |                 |                |          |
| E2 (see <u>Estradiol, Plasma/Serum</u> )                              |                   |  |   |                 |                |          |
| Ear Culture   | Microbiology (VH) | Ear, ear drainage fluid, Tympanocentesis fluid<br>MICROBIOLOGY<br>REQUISITION                                    | Daily   |                 | 2012-03-28     |          |
| Eastern Encephalitis (see <u>Arbovirus Flavivirus Serology/PCR</u> )  |                   |  |   |                 |                |          |
| EBV EA/NA (see <u>Epstein Barr: Early Antibody/Nuclear Antibody</u> ) |                   |  |   |                 |                |          |
| EBV IgM/IgG (see <u>Epstein Barr Virus Serology</u> )                 |                   |  |   |                 |                |          |
|   |                   |  |   |                 |                |          |

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| EBV PCR<br>Quantitative Epstein<br>Barr Virus<br>Epstein Barr Virus<br>PCR (Viral Load)        | Virology<br>Laboratory | See Special<br>Processing for<br>further<br>information:<br>4 mL Lavender<br>top (EDTA)<br>Vacutainer tube<br>VIROLOGY<br>LABORATORY<br>TEST<br>REQUISITION | Samples are<br>tested twice a<br>week on<br>Tuesday and<br>Thursday.<br>STAT requests<br>must be<br>approved by a<br>Medical<br>Microbiologist,<br>on call. | See report      | 2006-07-01     |          |
| Echinococcus (see <u>Ova and Parasites-Blood and Tissue</u> )                                  |                        |   |   |                 |                |          |
| Echinococcus<br>Serology   | Microbiology<br>(VH)   | Blood-5 mL<br>Gold or 6 mL<br>Red top<br>Vacutainer<br>PUBLIC<br>HEALTH<br>LABORATORY<br>TEST<br>REQUISITION  | Referred weekly<br>to the National<br>Reference<br>Centre for<br>Parasitology   |                 | 2010-09-13     |          |
| Ecstasy (see <u>Amphetamine Screen,Urine</u> )   |                        |   |   |                 |                |          |
| Effusion Washing (see <u>Fluids for Cytology</u> )   |                        |   |   |                 |                |          |
| eFTS (see <u>Maternal Serum Screen (for Open Neural Tube Defect and Down Syndrome Risks)</u> ) |                        |   |   |                 |                |          |
|  |                        |   |   |                 |                |          |

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| EGFR ctDNA<br>ctDNA EGFR | Molecular<br>Diagnostics | Plasma<br>MOLECULAR<br>DIAGNOSTICS<br>REQUISITION | As required   | See report      | 2019-06-03     |          |
|                          |                          |   |               |                 |                |          |

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| EGFR NGS  | Molecular Diagnostics | FFPE<br>Refer to Pathology | Monday to Friday<br>0800-1600h | See report      |                | <p>Patient must meet CCO criteria for funded testing</p> <p>N/A</p> <p>The National Comprehensive Cancer Network (NCCN) recommends testing for EGFR mutations and ALK rearrangements in all patients with recurrent or metastatic lung adenocarcinomas in order to guide therapy(PMID: 22138009). The College of American Pathologists (CAP), International Association for the Study of Lung Cancer (IASLC), and Association for Molecular Pathology (AMP) have prepared a joint guideline that provides a detailed description of the patient and specimen requirements (more...)</p> |

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| Elastase 1 (see <u>Fecal Elastase</u> )  |            |   |               |                 |                |          |
| Elavil (see <u>Amitriptyline, Serum/Plasma</u> )                               |            |   |               |                 |                |          |
| Electrolytes, Fluid<br>Sodium (fluid)<br>Potassium (fluid)<br>Chloride (fluid) | Core       | Fluid<br>GENERAL<br>LABORATORY<br>REQUISITION | As required   | See report      | 2010-05-17     |          |
|  |            |   |               |                 |                |          |

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| Electrolytes, Plasma<br>Sodium<br>Potassium<br>Chloride<br>CO2<br>GAP | Core       | 4.5 mL Green (Lithium Heparin) top Vacutainer<br><br><b>Pediatric:</b><br>0-2 yrs: 0.5 mL Green micropick tube.<br>2-10 yrs: 2 mL Green top<br>GENERAL LABORATORY REQUISITION | As required   | Sodium:<br>135-145 mmol/L<br>Potassium:<br>3.5-5.0 mmol/L (<3 months: 4.0-6.5 mmol/L)<br>Chloride:<br>98-107 mmol/L<br>CO <sub>2</sub> :<br>22-29 mmol/L | 2008-11-15     | Potassium results may be affected by hemolysis.<br>Sodium: <120 or >160 mmol/L<br>Potassium: <3.0 or >6.0 mmol/L<br>Of use in monitoring electrolyte status, interpretation of acid-base balance and evaluation of hydration status.<br><br>Potassium: potassium is largely intracellular cation and plasma levels are, at best, only a general guide to the total body potassium content. In some cases (e.g. untreated diabetes), plasma potassium may be increased when total body potassium is depleted.<br><br>CO <sub>2</sub> : for complete evaluation of (more...) |

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| Electrolytes,Urine<br>Sodium (urine)<br>Potassium (urine)<br>Chloride (urine) | Core       | 24 Hour Urine<br>or Random<br>Urine<br>GENERAL<br>LABORATORY<br>REQUISITION   | As required   | Normal Diet:<br>Sodium:<br>40-200 mmol/L<br>Potassium:<br>25-125 mmol/L |                |   |
| Electron Microscopy -<br>Tissue, Bone Marrow,<br>Blood                        | Pathology  | Tissue/Blood &<br>Bone Marrow<br>SURGICAL<br>PATHOLOGY<br>REQUISITION<br>Tissue: In<br>general EM is<br>added to the<br>order for a<br>tissue<br>specimen. E-<br>order choosing<br>appropriate<br>specimen.<br>Blood, bone<br>marrow: E order<br>choosing EM,<br>Blood Only.<br>See<br>Identification of<br>Clinical<br>Specimens | As required   | N/A   |                | Please call Electron<br>Microscopy at ext.<br>78977 for any<br>questions regarding<br>this test.<br><br>See report<br>See above |
| Elixophyllin (see <u>Theophylline, Serum</u> )                                |            |   |               |   |                |   |

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| EMA (see <u>Antiendomysial Antibodies</u> )   |                           |   |  |                 |                |          |
| Encephalitis (see <u>Autoimmune Encephalitis Panel</u> )  |                           |   |  |                 |                |          |
| Endocervical Smear (see <u>Gynaecological Conventional Smear for Cytology</u> )   |                           |   |  |                 |                |          |
| Endomyocardial biopsy (see <u>Heart Biopsy</u> )  |                           |   |  |                 |                |          |
| Enhanced First Trimester Screen (see <u>Maternal Serum Screen (for Open Neural Tube Defect and Down Syndrome Risks)</u> ) |                           |   |  |                 |                |          |
| Enterovirus PCR - ENVPCR  | Virology Laboratory       | <b>CSF</b><br><b>Fluids</b> - pericardial, pleural, peritoneal<br><b>Swabs</b> - throat, rectal, mouth<br><b>Tissue</b> - lymph nodes, brain<br>VIROLOGY LABORATORY REQUISITION | Samples are tested three times weekly on Monday, Wednesday and Friday. | See report      | 2011-10-31     |          |
| Environmental Culture   | Microbiology/Epidemiology | Swab, fluid & solid material<br>MICROBIOLOGY REQUISITION  | Daily<br><br>Turn-around-time varies with the organisms in question.   |                 |                |          |
| Eosinophils (see <u>Differential Leukocyte Count (Peripheral Blood)</u> )   |                           |   |  |                 |                |          |
| Epinephrine (see <u>Catecholamines, Plasma (Norepinephrine, Epinephrine), Catecholamines, Urine</u> )                     |                           |   |  |                 |                |          |
| Epival (see <u>Valproic Acid, Serum/Plasma-Total</u> )  |                           |   |  |                 |                |          |



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| EPO (see <u>Erythropoietin, Serum/Plasma</u> )                         |                   |  |  |                 |                |   |
| Epstein Barr Virus PCR (Viral Load) (see <u>EBV PCR</u> )              |                   |  |  |                 |                |   |
| Epstein Barr Virus Serology<br>Infectious Mononucleosis<br>EBV IgM/IgG | Core (UH)         | 5 mL Gold or 6 mL Red top Vacutainer tube<br>GENERAL LABORATORY REQUISITION            | Daily Monday-Friday                                    |                 | 2006-07-01     | A single serum sample will yield significant results for establishing previous exposure.  |
| Epstein Barr: Early Antibody/Nuclear Antibody<br>EBV EA/NA             | Microbiology (VH) | 5 mL Gold or 6 mL Red top Vacutainer tube<br>PUBLIC HEALTH LABORATORY TEST REQUISITION | Referred out weekdays to the Public Health Laboratory. | See report      | 2010-09-13     | Specimens received for EBV Serology will be tested for:<br>EBV Viral Capsid Antigen IgG (VCA IgG)<br>EBV Early Antigen IgG (EA)<br>EBV Nuclear Antigen IgG (EBNA) |
| ERAS (see <u>KRAS</u> )  |                   |  |  |                 |                |   |
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| Erythrocyte Sedimentation Rate<br>ESR<br>Sed Rate<br>Sedimentation Rate | Core       | 4 mL K <sub>2</sub> or K <sub>3</sub> EDTA<br>Lavender top<br>Vacutainer tube<br><b>Pediatric:</b><br>0-10 yrs: 3.0 mL Lavender top<br>GENERAL LABORATORY REQUISITION | As required   | Male: 0-10 mm/h<br><br>Female: 0-20 mm/h | 2008-04-07     |          |

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| Erythropoietin, Serum/<br>Plasma<br>EPO | Core       | 5 mL Gold top<br>Vacutainer tube<br><br><b>Pediatric:</b><br>0-10 years: 2<br>mL Gold top<br><br>Light Green (Li-<br>heparin) top<br>tubes are also<br>acceptable.<br>GENERAL<br>LABORATORY<br>REQUISITION | Referred out<br>Tuesday-<br>Thursday | <u>Male:</u><br><br><1 year: Not<br>established<br>1-3 years: 1.7-<br>17.9 mIU/mL<br>4-6 years: 3.5-<br>21.9 mIU/mL<br>7-9 years: 1.0-<br>13.5 mIU/mL<br>10-12 years: 1.0-<br>14.0 mIU/mL<br>13-15 years: 2.2-<br>14.4 mIU/mL<br>16-18 years: 1.5-<br>15.2 mIU/mL<br>>18 years: 2.6-<br>18.5 mIU/mL<br><br><u>Female:</u><br><br><1 year: Not<br>established<br>1-3 years: 2.1-<br>15.9 mIU/mL<br>4-6 years: 2.9-<br>8.5 mIU/mL<br>7-9 years: 2.1-<br>8.2 mIU/mL<br>10-12 y (more...) | 2009-02-12     |          |

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| Esophageal Brush/Wash (see <u>Gastrointestinal/Hepatobiliary Specimens for Cytology</u> ) |            |               |               |                 |                |          |
| ESR (see <u>Erythrocyte Sedimentation Rate</u> )  |            |               |               |                 |                |          |
|   |            |               |               |                 |                |          |

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| Estimated Glomerular Filtration Rate (eGFR) | Core       |               |               | <p>For patients under 18 years of age eGFRs are reported as: eGFR calculation is not available for patients under 18 years of age.</p> <p>eGFR: &lt; 15 mL/min/1.73 m<sup>2</sup><br/>Consistent with <b>kidney failure</b></p> <p>eGFR: 15-29 mL/min/1.73 m<sup>2</sup><br/>Consistent with <b>severe chronic kidney disease</b></p> <p>eGFR: 30-44 mL/min/1.73 m<sup>2</sup><br/><b>Moderate to severe decreased kidney function</b> is consistent with chronic (more...)</p> | 2016-01-04     | <p>eGFR is calculated using the CKD-EPI 2009 equation. Multiply eGFR by 1.159 for patients of African descent.</p> <p>Results for eGFR should be interpreted in concert with urine albumin creatinine ratio (ACR). eGFR is not valid for extreme muscle mass, pregnancy, drug dosing and acute kidney injury and not normalized for body surface area</p> |

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| Estradiol,<br>Plasma/Serum<br>17 Beta Estradiol<br>E2<br>Major Estrogen | Core       | <p><b>Adult:</b><br/>4.5 mL Light Green top (Li-Heparin)<br/>Vacutainer tube</p> <p><b>Pediatric:</b><br/>0-2 years: 0.5 mL Light Green top (Li-Heparin)<br/>Microtainer<br/>2-10 years: 3 mL Light Green top (Li-Heparin)<br/>Vacutainer tube</p> <p>Red, Gold, or Lavender (EDTA) top tubes are also acceptable<br/>GENERAL LABORATORY REQUISITION</p> | As required   | <p>Male &gt;18 years:<br/>≤159 pmol/L</p> <p><b>Female:</b></p> <p>Follicular phase:<br/>114 - 33 2 pmol/L</p> <p>Early follicular phase:<br/>≤231 pmol/L</p> <p>Intermediate follicular phase:<br/>96 294 pmol/L</p> <p>Late follicular phase:<br/>182 858 pmol/L</p> <p>Ovulatory phase:<br/>222 1959 pmol/L</p> <p>Luteal phase:<br/>222 8 54 pmol/L</p> <p>Early luteal phase:<br/>188 658 pmol/L</p> <p>Interme (more...)</p> | 2015-06-01     | <p>Biotin, fulvestrant (Faslodex), and steroid drugs may interfere with this test. Samples should not be taken from patients receiving high biotin doses (i.e. &gt; 5 mg/day) until at least 8 hours after the last biotin administration.</p> <p>Estradiol can be used as an indicator of follicular function and provides information in the diagnosis of amenorrhea and infertility. During pregnancy estradiol levels increase.</p> <p>In males, estradiol can be used to evaluate feminizing syndromes.</p> |

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| Estrone, Serum/Plasma E1   | Core       | 5 mL Gold top Vacutainer tube<br>GENERAL LABORATORY REQUISITION | Referred out Monday-Thursday | <b>Male:</b><br>105-275 pmol/L<br><br>Follicular Phase: 144 - 487 pmol/L<br>Luteal Phase: 200 - 663 pmol/L<br>Peri-ovulatory: 214 - 947 pmol/L<br><br>Post-menopausal:<br>With Estrogen HRT: 189-1803 pmol/L<br>Without Estrogen HRT: 114-370 pmol/L | 1999-02-05     | Referred out Monday - Thursday<br><br>Store and send cold. |
| ETG (see <u>Ethyl Glucuronide</u> )  |            |   |                              |  |                |  |
| Ethanol (see <u>Alcohol Fractionation (by Gas Liquid Chromatography)</u> ) |            |   |                              |  |                |  |
|  |            |   |                              |  |                |  |

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| Ethanol, Serum/Plasma<br>Ethyl Alcohol            | Core (VH)  | 4.5 mL Green (Lithium Heparin) top Vacutainer tube<br><br><b>Pediatric:</b><br>0-2 yrs: 0.5pk. Green top<br>2-10 yrs: 2 mL Green top<br>GENERAL LABORATORY REQUISITION | As required   | Negative<br><br>Values > 2.2 mmol/L will flag as High. | 2010-06-01     | Also available as part of Alcohol Fractionation by Gas Liquid Chromatography. 33.0 mmol/L or greater<br><br>Spin all urine samples to remove debris |
| Ethosuximide, Serum<br>Anticonvulsant<br>Zarontin | Core       | 5 mL Gold or 6 mL Red top Vacutainer tube<br>GENERAL LABORATORY REQUISITION  | As required   | <b>Therapeutic:</b><br><br>280-710 µmol/L              | 2008-02-05     | Referred out Monday - Thursday<br><b>Critical:</b> >1060 µmol/L   |
| Ethyl Alcohol (see <u>Ethanol, Serum/Plasma</u> ) |            |  |               |  |                |   |
|   |            |  |               |  |                |   |



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| Ethyl Glucuronide<br>ETG                             | Core       | Urine (Random)<br>GENERAL<br>LABORATORY<br>REQUISITION | Referred out  | See report      | 2019-05-15     | <p>Testing is available to Liver Transplant patients and requires Biochemist Approval</p> <p>Negative &lt;100 g/8.8 mmol Cre<br/>Indeterminate 100-200 g/8.8 mmol Cre<br/>Positive &gt;200 g/8.8 mmol Cre</p> <p>Bacterial contamination of the specimen should be prevented by collecting or transferring in sterile and air-tight containers. Store and send cold or frozen.</p> |
| Ethylene Glycol (see <a href="#">Glycol Screen</a> ) |            |  |               |                 |                |  |
|  |            |  |               |                 |                |  |

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| Eye Culture | Microbiology (VH) | Conjunctival swab or scraping<br>Corneal scrapings<br>Vitreous fluid or washings<br>MICROBIOLOGY REQUISITION | Daily         |                 | 2008-11-03     | Organisms are more readily detected in scrapings than from a swab.<br><br>Conjunctival samples from babies less than 2 weeks old will be investigated for N. gonorrhoeae.<br>Swabs - <b>EYEC</b><br>Scrapings - <b>TISC</b><br>Fluids - <b>FLDS</b> |