Clinical Laboratory Test Update

PCR Testing Source Changes- Effective Jan 15th, 2023

The University of Colorado Hospital Clinical Laboratory has updated several PCR assays to a new extraction instrument and has narrowed the list of sources that can be tested in-house for these assays.

In addition, the CMV and EBV assays will change units from copies/mL to IU/mL and urines for CMV testing will no longer be given a quantitative result and the result will be qualitative.

All sources (e.g. tissue) outside of defined test sources for the lab will be sent out to a reference laboratory.

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| **Affected Test Orders:** |
| LAB3249 HSV PCR (sources other than whole blood)  LAB3349 VZV PCR (sources other than whole blood)  LAB3239 Adenovirus PCR  LAB3248 EBV Quant PCR (sources other than whole blood)  LAB3244 CMV PCR (sources other than whole blood)  LAB3246 Enterovirus Qualitative by PCR |

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| **Test Name** | **HSV PCR** |
| Qualitative Results | Not detected (negative), Detected (positive) for HSV Type 1 and HSV Type 2 (test has 2 targets) |
| Acceptable Specimens | Swabs/Lesion  CSF  BAL/Bronch/Trach  Eye/Vitreous/Aqueous |
| Sample Requirements | Swab in viral transport media/PBS  All other sources in sterile container  LAB3233 for HSV PCR on EDTA Whole Blood |

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| **Test Name** | **VZV PCR** |
| Qualitative Results | Not detected (negative) or Detected (positive) |
| Specimen | Swabs/Lesion  CSF  BAL/Bronch/Trach  Eye/Vitreous/Aqueous |
| Sample Requirements | Swab in transport media/PBS  All other sources in sterile container  LAB3235 for VZV PCR on EDTA Whole Blood |

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| **Test Name** | **Adenovirus PCR** |
| Quantitative Results | Not detected = Negative, no virus detected  <1000 copies/mL = Positive.  Virus detected below 1000 copies/mL  1000 copies/mL to 1,000,000 copies/mL = Positive  >1,000,000 copies/mL = Positive. Virus detected above maximum quantitative range. |
| Specimen | CSF  Urine  EDTA plasma  BAL/Bronch/Trach |
| Sample Requirements | Plasma in EDTA  All other sources in sterile container |

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| **Test Name** | **EBV Quantitative PCR** |
| Quantitative Results | Not detected = Negative, no virus detected  <1000 IU/mL = Positive.  Virus detected below 1000 IU/mL  1000 IU/mL to 1,000,000 IU/mL = Positive  >1,000,000 IU/mL = Positive. Virus detected above maximum quantitative range. |
| Specimen | CSF  BAL/Bronch/Trach |
| Sample Requirements | Sterile container |

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| **Test Name** | **CMV PCR** |
| Qualitative Results | Not detected (negative) or Detected (positive) |
| Quantitative Results | Not detected = Negative, no virus detected  <1000 IU/mL = Positive.  Virus detected below 1000 IU/mL  1000 IU/mL to 1,000,000 IU/mL = Positive  >1,000,000 IU/mL = Positive. Virus detected above maximum quantitative range. |
| Specimen | |  |  | | --- | --- | | Quantitative | CSF | | BAL/Bronch/Trach | | Amniotic Fluid | | Eye/Vitreous/Aqueous | | Qualitative | Urine | | Oral/Buccal swabs | | Stool | |
| Sample Requirements | Swab in transport media/PBS  All other sources in sterile container |

If you have any questions or special concerns, visit the University of Colorado Hospital Clinical Laboratory Test Directory at <https://www.testmenu.com/universityhospital>, or the Source for COVID-19 information at <https://thesource.uchealth.org>.

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