

LAB ALERT: NEW TESTNOTIFICATION DATE: **7/24/2013**EFFECTIVE DATE: **7/30/2013****CYTOMEGALOVIRUS (CMV) QUALITATIVE BY PCR, NON BLOOD**

TEST CODE: CMVNBL

INTERFACE CODE: 1004169

METHODOLOGY: Qualitative Real-Time Polymerase Chain Reaction (PCR)

CLINICAL UTILITY: Infection with cytomegalovirus (CMV) is a significant cause of morbidity and mortality in neonates, transplant patients and other immuno-compromised individuals. Infection may involve multiple organs including the brain, lung and liver, genital, respiratory and gastrointestinal tract. CMV is found in infected persons in blood, tissues, CSF, respiratory secretions, and nearly all secretory fluids (e.g. saliva, urine, cervical and vaginal excretions, spermatic fluid, breast milk, amniotic fluid, tears) and feces. Transmission can be oral, sexual, via blood transfusion or organ transplantation, intrauterine, or perinatal. Most infections are asymptomatic followed by a lifelong latency of the virus in of the monocytes/macrophages. CMV can present as mononucleosis like symptoms with fever, weak hepatitis, and general indisposition. Severe courses of CMV infection have been observed in those infected intrauterine and in immune-deficient patients. Detection CMV DNA in a specimens with a clinical history and symptoms consistent with CMV infection, supports the clinical diagnosis of infection due to this virus. This test should not be used to screen asymptomatic patients.

PERFORMED: Monday-Saturday

COLLECTION: CSF (Cerebrospinal Fluid); Body Fluids (Amniotic Fluid, Breast Milk); Urine; Bone Marrow in a lavender top EDTA tube; Upper respiratory specimens (nasal/throat specimens using polyester-tipped, Dacron or rayon-tipped collection swabs with plastic shafts) in M4 or M5 Viral Transport Media; Lower respiratory specimens (BAL, bronchial washings, tracheal secretions) in M4 or M5 Viral Transport Media or Tissue.

Specimen preparation:

Submit 1 mL CSF (Min. 0.5 mL), Body Fluid (Min. 2 mL), Urine (Min. 2 mL) in a sterile plastic screw capped container or tube. Submit 2 mL Bone Marrow (Min. 0.5 mL). Submit respiratory specimens in M4 or M5 transport. Do not centrifuge any specimen type.

Submit Fresh and Frozen Tissue in sterile container. Fresh tissue must be put in RPMI media. Frozen tissue must be in OCT compound. Submit Paraffin embedded Tissue in sterile biohazard plastic bag. Submit slides in slide holder.

STABILITY (FROM COLLECTION TO INITIATION OF TESTING) CSF, body fluids, amniotic fluid and urine: Ambient: 8 hours; Refrigerated: 5 days; Frozen: 1 month
Bone Marrow: Ambient: 8 hours; Refrigerated: 5 days; Frozen: Unacceptable
Paraffin embedded tissue: Ambient: Indefinitely; Refrigerated: Indefinitely; Frozen: Unacceptable
Fresh tissue: Refrigerated: 24 hours; Frozen: 3 months

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TRANSPORT: Bone Marrow, CSF, Body Fluid, Urine, respiratory or Fresh Tissue: Refrigerated
Frozen Tissue: Frozen
Paraffin embedded Tissue: Ambient or on ice pack in summer
Slides: Ambient

REFERENCE RANGE: Target Not Detected (TND)

RESULTS REPORTED: 1-3 days

CPT CODE: 87496

PERFORMING LAB: med fusion

ORDER/CONTACT INFORMATION: ClearPoint Client Services: 972-966-7700 | Fax: 972-966-7799