

CYTOMEGALOVIRUS (CMV) QUANTITATIVE

CERNER ORDERABLE

Cytomegalovirus PCR, CMVPCR

CPT CODE

87497

CLINICAL UTILITY

CMV infection remains a major cause of morbidity and mortality in both solid organ transplant patients and none marrow transplant patients. The diagnostic challenge with CMV disease is to distinguish asymptomatic latent or low level persistent infection from clinically significant disease. The use of plasma as a sample type may provide a better correlation with clinical disease than detection of CMV DNA from whole blood or leukocytes because it measures CMV DNA circulating in the blood stream which is a direct result of active viral replication rather than the latent intracellular CMV DNA¹.

METHODOLOGY

Quantitative PCR

SPECIMENS

Plasma: Collect in 6 mL lavender top tube. Spin and separate plasma within 6 hours of collection. Aliquot plasma and refrigerate.

SPECIMEN STABILITY

Room temperature up to 6 hours, Refrigerated up to 5 days, greater than 5 days frozen

SHIPPING

Ship plasma on ice packs or if frozen on dry ice

CAUSES FOR REJECTION

Plasma not separated within 6 hours of collection.
Whole Blood frozen

SPECIFICITY

Primers and probes are specific for CMV. No cross reactivity was observed when tested against HSV 1, HSV 2, EBV, HHV-6 variant A and HHV-6 variant B

ASSAY RANGE

137 IU per mL to 9,100,000 IU per mL

TURNAROUND TIME

Monday-Saturday, 24-48 hours

1. Reference information can be found in the Indiana University Health Molecular Assay Procedures.