

Epstein-Barr Virus DNA Detect and Quantification, Plasma

Test ID: EBVQN

Useful for:

Diagnosis of EBV-associated infectious mononucleosis in individuals with equivocal or discordant Epstein-Barr virus (EBV) serologic marker test results

Diagnosis of posttransplant lymphoproliferative disorders (PTLD), especially in EBV-seronegative organ transplant recipients receiving antilymphocyte globulin for induction immunosuppression and OKT-3 treatment for early organ rejection

Monitoring progression of EBV-associated PTLD in organ transplant recipients

Methods:

Real-Time Polymerase Chain Reaction (rtPCR)

Reference Values:

Undetected

Specimen Requirements:

Container/Tube: Lavender top (EDTA)

Submission container: Plastic vial / Aliquot Tube, 5 mL (T465)

Specimen Volume: 1.5 mL

Collection Instructions:

1. Centrifuge blood collection tube per manufacturer's instructions (eg, centrifuge within 2 hours of collection for BD Vacutainer tubes).
2. Aliquot plasma into plastic vial.

Minimum Volume: 0.5 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Plasma EDTA	Frozen (preferred)	84 days
	Refrigerated	6 days

Cautions:

Serial determination of plasma specimens from organ transplant recipients may be necessary to monitor increasing (risk of development of posttransplant lymphoproliferative disorders: PTLD) or decreasing (treatment efficacy) levels of Epstein-Barr virus (EBV) DNA.

Nonsymptomatic EBV viremia or viral shedding may occur occasionally in healthy individuals. Therefore, this test should be used only for patients with a clinical history and symptoms consistent with EBV infection, and test results must be interpreted in the context of patient's clinical history, signs and symptoms. This test should not be used to screen asymptomatic patients.

Due to potential differences in assay performance, serial monitoring of a patient's EBV viral load should be performed using the same exact assay. This assay quantifies EBV DNA in plasma on average 3-fold lower (about 1.0 log IU/mL) than the laboratory-developed quantitative EBV DNA assay previously performed at Mayo Clinic Laboratories due to differences in the specimen extraction method and design in the amplification primers and probes for the viral target sequences.

CPT Code:

87799

Day(s) Setup: Monday through Saturday

Analytic Time: Monday through Thursday, 1 day; Friday and Saturday, 3 days

Questions

Contact James Conn, Laboratory Technologist Resource Coordinator at 800-533-1710.