
Lab Dept: Microbiology/Virology

Test Name: PARVOVIRUS B19 PCR, FLUID

General Information

Lab Order Codes: PVP

Synonyms: Parvovirus B19 DNA PCR; Fifth Disease-Parvovirus; Parvovirus B19, Molecular Detection, PCR, Varies

CPT Codes: 87798 - Infectious agent detection by nucleic acid (DNA or RNA), not otherwise specified; amplified probe technique, each organism

Test Includes: Parvovirus B19 Qualitative PCR reported as positive or negative

Logistics

Test Indications: Diagnosing B19 (parvovirus) infection.

Lab Testing Sections: Microbiology/Virology - Sendouts

Referred to: Mayo Clinic Laboratories (MML Test: PARVO)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 3 days, test set-up Monday – Friday

Special Instructions: N/A

Specimen

Specimen Type: Amniotic fluid, Spinal fluid, Synovial fluid or Bone marrow

Container: Sterile screw-capped plastic vial

Draw Volume: CSF or amniotic fluid: 0.5 (min: 0.3) mL in sterile container
Synovial fluid: 0.5 (min: 0.5 mL) mL in sterile container or EDTA vacutainer.

Bone Marrow: Collect 0.5 mL aspirate in dry syringe immediately transferred to EDTA vacutainer to prevent clotting.

Processed Volume: Same as Draw Volume

Collection:	Standard fluid/bone marrow collection procedure
Special Processing:	Lab Staff: Do NOT Centrifuge. Send fluid/bone marrow specimens in a screw-capped plastic vial. Indicate specimen type on specimen label. Store and ship at refrigerated temperatures. Forward promptly. Specimen stable refrigerated (preferred) or frozen for 7 days.
Patient Preparation:	None
Sample Rejection:	Improperly labeled specimen; insufficient volume; improper specimen handling.

Interpretive

Reference Range:	Negative
Limitations:	A negative result does not necessarily indicate the absence of parvovirus B19 infection. False-negative results may be due to the virus being present at levels below the limit of detection for this assay, or to inhibitory substances that may be present in the specimen. This assay has only been validated for the detection of genotype 1 parvovirus B19 and its ability to detect the less common genotypes 2 and 3 is unknown.
Methodology:	Real-Time Polymerase Chain Reaction (PCR)/DNA Probe Hybridization
References:	Mayo Clinic Laboratories November 2023
Updates:	3/18/2004: Test moved from the Univ of Texas Southwestern University to Mayo Medical Laboratories forward to Focus Technologies. 10/26/2004: Test moved from Mayo forward to Focus Technologies to test being performed in house at MML. Note changes in blood draw volume, tube type and storage properties (previously frozen). Additional specimen types have been added. 11/09/2023: Added limitations, clarified bone marrow collection, updated minimum volumes, added specimen stability.