

## Powassan Virus, RNA, Molecular Detection, PCR, Random, Urine

**Test ID:** POWVU

### Useful for:

- Rapid testing for Powassan virus RNA (lineage 1 and lineage 2) using random urine specimens.
- An adjunctive test to serology for detection of early Powassan virus infection (ie, first few days after symptom onset). The Powassan virus polymerase chain reaction result may remain positive for a longer time in urine than in blood, serum, and cerebrospinal fluid (7 days or more).
- This assay **should not be used for** screening asymptomatic individuals and should only be used to test patients with signs and symptoms of Powassan virus disease.

### Methods:

Real-Time Polymerase Chain Reaction (PCR)

### Reference Values:

Negative

### Specimen Requirements:

|                                 |                                                                               |
|---------------------------------|-------------------------------------------------------------------------------|
| <b>Specimen Type:</b>           | Urine                                                                         |
| <b>Container/Tube:</b>          | Sterile container                                                             |
| <b>Specimen Volume:</b>         | 1.0 mL                                                                        |
| <b>Collection Instructions:</b> | 1. Collect random urine in a sterile container.<br>2. Label specimen as urine |
| <b>Minimum Volume:</b>          | 0.3 mL                                                                        |

### Specimen Stability Information:

| Specimen Type | Temperature              | Time   |
|---------------|--------------------------|--------|
| Urine         | Refrigerated (preferred) | 7 days |
|               | Frozen                   | 7 days |

### Cautions:

- The sensitivity of the assay is dependent upon the time of illness onset in which the specimen is collected. Polymerase chain reaction testing has the greatest utility when used within the first few days of symptom onset.

- A negative test does not exclude infection with Powassan virus. Therefore, the results obtained should be used in conjunction with clinical findings and serologic test results to make an accurate diagnosis.
- This assay detects both viable and nonviable virus. Test performance depends on viral load in the specimen and may not correlate with cell culture performed on the same specimen.

**CPT Code:**

87798

**Day(s) Performed:** Monday through Friday      **Report Available:** Same day / 1 to 5 days

**Questions**

Contact Dunisha Messmer, Laboratory Technologist Resource Coordinator at 800-533-1710.