Powassan IgM Antibody

Test Description	Qualitative assay for the detection of IgM antibodies to Powassan (POW) virus in human serum.
Test Use	As an aid in the laboratory diagnosis of Powassan virus infection in persons with symptoms of febrile illness and evidence of neurologic disease.
Test Department	Virology/Serology Phone (860) 920-6662, FAX: (860) 920-6661
Methodology	IgM antibody capture enzyme-linked immunosorbent assay (MAC-ELISA)
Availability	Weekly as needed
Specimen Requirements	0.5 mL Serum (serum separator tube, SST)
Collection kit/container	Collection kits can be obtained by calling the outfit room, (860) 920-6674 or (860) 920-6675, Monday- Friday, 8:00 AM to 4:00 PM. Requests may also be submitted via e-mail to dph.outfitroom@ct.gov
Collection Instructions	Standard venipuncture for serum, allow SST specimens to clot completely before centrifugation.
Specimen Handling & Transport	Store specimen at room temperature (15-25 °C) for up to 4 days or at 2-8°C for up to 120 days. For longer storage of specimens, keep at -20 °C or colder for up to 1 year. Transport to laboratory with ice packs.
Unacceptable Conditions	Unlabeled specimen; Improper specimen type; Specimens that have leaked or containers that have broken in transit; Specimens not handled, stored, or transported as described above.
Requisition Form	Clinical Test Requisition OL-9B (indicate **Powassan IgM antibody**)
Required Information	Name and address of submitter. Two patient identifiers (ie.name, DOB, Acc.#, MRN), Town of residence (city, state, zip), specimen source/type, date collected, test(s) requested. Please ensure information on the requisition matches that on the specimen. **Please include symptom onset date, list of symptoms and any recent travel.**
Limitations	Results are not intended to be used as the sole basis for diagnosis, treatment, or other patient management decisions. They should be interpreted in conjunction with clinical observations, patient history, epidemiological information, and other laboratory evidence. Interpretation of Powassan IgM antibody results should account for the possibility of cross-reactivity with other flaviviruses. Assay performance has only been established with the specimen types indicated. Other specimen types are not acceptable for use with this assay. This test was developed, and its performance characteristics determined by the Connecticut Department of Public Health Laboratory. This test has not been cleared or approved by the Food and Drug Administration.
Additional Comments	Assay results are intended to be followed up according to the latest guidelines (e.g., recommendations from the Centers for Disease Control and Prevention) for the diagnosis of Powassan virus infection. Presumptive positive, equivocal and inconclusive specimens will be forwarded to CDC for PRNT confirmatory testing.

Revision: 1/2/2024