Zika MAC-ELISA

Test Description	Serological assay for the presumptive detection of IgM antibodies to Zika virus in persons meeting the Centers for Disease Control and Prevention (CDC) clinical and/or epidemiological criteria for Zika virus testing
Test Use	To aid in the diagnosis of recent Zika virus infection
Test Department	Virology Phone: (860) 920-6662 FAX: (860) 920-6661
Methodology	IgM antibody capture enzyme-linked immunosorbent assay (MAC-ELISA)
Availability	Daily, Monday-Friday
Specimen Requirements	• Serum, 0.5-1.0 mL, collected ≥ 4 days after symptom onset; or, for asymptomatic pregnant women, 2-12 weeks after travel to a Zika endemic region • Cerebrospinal Fluid (must be submitted with a patient-matched serum specimen)
Collection Kit/Container	To obtain collection kit, refer to Collection Kit Ordering Information.
Collection Instructions	• Collect blood by standard venipuncture. To avoid hemolysis, tube should be centrifuged and serum decanted prior to shipment. • Transport specimens using cold-packs
Specimen Handling & Transport	Specimens can be stored at 2-8°C for up to 7 days after collection. If a delay >7 days is expected, store specimens at -20°C or lower Transport with an ice pack coolant.
Unacceptable Conditions	Insufficient specimen volume (minimum required volume of serum is 0.5 ml) Unlabeled specimen Specimens that have leaked or containers that have broken in transit Specimens not collected or handled as described above Specimens not meeting the established CDC testing criteria
Requisition Form	Zika Virus Clinical Test Requisition https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/laboratory/labhome/lab-pdf-files/Clinical-Tests/Zika-SHTG-2017-10-05-Post-0118.pdf?la=en
Required Information	Name and address of submitter (and/or Horizon profile #) Patient name or identifier, date of birth, town of residence (city, state, zip) Specimen type or source, date of collection, test requested Please ensure patient name on requisition matches that on the specimen.
Limitations	Zika testing of clinical specimens for viral RNA by RT-PCR and IgM antibodies by ELISA will continue to be offered at the SPHL **only** for patients who meet specific clinical and exposure criteria as defined at https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/infectious_diseases/ZikaVirus/dph_zika_virus_testing_protocol.pdf?la=en
Additional Comments	For pregnant women, current Zika virus testing guidelines recommend PCR on serum and urine and IgM on serum, all done concurrently on specimens collected within 12 weeks of potential exposure. For infants, guidelines recommend PCR testing of urine and serum collected within 2 days of birth.

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