Florida HEALTH
Bureau of Public Health Laboratories

Test Menu

TOPIC	DESCRIPTION
Test Name	Dengue virus (DENV) Typing, PCR
Other Name (s)	Real-time PCR, RT-PCR, real-time RT-PCR, nucleic acid amplification testing (NAAT)
Analyte(s)	dengue virus-1 (DENV-1), dengue virus-2 (DENV-2), dengue virus-3 (DENV-3), dengue virus-4 (DENV-4)
Test Code	1681
Lab location	Jacksonville and Tampa locations
Department	Virology
Prior Authorization	Requires prior approval from Regional Epidemiology and notification to the testing lab. Contact local County Health Department to start the process for approval.
Required Forms	Test Requisition Form, DH1847. Medical History needed (i.e., onset date, collection date, travel history, symptoms, and mosquito bite history).
Specimen Sources	Acute serum, plasma (less than 14 days post onset of symptoms or exposure).
Supplemental Information- Special Specimen Preparation	N/A
Minimum Volume	1mL
Storage Conditions	Refrigerate specimens at 2-8°C or frozen at ≤-20°C.
Collection Media	red or tiger top serum separator
Specimen Labeling	-Specimen must be labeled with at least two unique patient identifiers, Ex: Name and DOB. -The collection date and time if submitting multiple specimens. **-Information on the specimen must match the requisition.**
Packaging and Shipping Instructions and Handling	Specimens must be shipped between (2-8°C) or frozen (≤-20°C) on dry ice. Separation multiple specimens into different bags (preferred).
Test Methodology	Real-time reverse-transcription polymerase chain reaction (RT-PCR) assay, nucleic acid amplification testing (NAAT).
Turnaround Time	7 - 14 days
Result Indicator	No virus detected or name of virus detected
Unsatisfactory Specimen	Unlabeled or mislabeled specimens, insufficient quantity for testing, incorrect collection tube/transport media, grossly contaminated specimen, disparity between ID on sample and paperwork, improper collection, storage or transport of specimen, no test requested, test requested is not performed. If required, the absence of patient history. If required, the lack of patient history that is compatible with test requested. Test order cancelled by provider, broken, or leaked in transit, etc.
Interferences and Limitations	Negative Results do not preclude dengue virus infection and should not be used as the sole basis for treatment or other patient management decisions. A negative specimen collected between days 3-7 after onset of the febrile illness should be retested with an anti-DENV IgM test to increase likelihood of making the diagnosis of dengue. A false negative result may occur if a specimen is improperly collected, transported, or handled. False negative results may also occur if amplification inhibitors are present in the specimen or if inadequate numbers of organisms are present in the specimen. The performance of this test has not been established for monitoring treatment of dengue. Detection of viral RNA may not indicate the presence of infectious virus or that dengue is the causative agent for clinical symptoms. Assay performance characteristics have not been established for prenatal screening, or for general population screening without symptoms consistent with Dengue Fever. The test is not FDA cleared to the screening of blood or plasma donors.
Additional Information & Notes	none
Reference Range	No virus detected or name of virus detected
Reference Lab	CDC if needed
Reflex testing	None