MAYO CLINIC LABORATORIES

Test Definition: VDSFQ

VDRL Titer, Spinal Fluid (Non-Orderable)

Overview

Useful For

Only orderable as a reflex. For more information see VDSF / VDRL, Spinal Fluid.

Aiding in the diagnosis of neurosyphilis

Method Name

Only orderable as a reflex. For more information see VDSF / VDRL, Spinal Fluid.

Flocculation/Agglutination

NY State Available

No

Specimen

Specimen Type

CSF

Specimen Required

Only orderable as a reflex. For more information see VDSF / VDRL, Spinal Fluid.

Collection Container/Tube: Sterile vial
Submission Container/Tube: Plastic vial
Specimen Volume: 0.5 mL
Collection Instructions: Submit specimen collected in vial 2 if possible. If not, note from which vial the aliquot was obtained.

Specimen Minimum Volume

0.2 mL

Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container

CSF	Frozen (preferred)	14 days	
	Refrigerated	14 days	

Clinical & Interpretive

Clinical Information

The VRDL assay is a nontreponemal serologic test for syphilis that uses a cardiolipin-cholesterol-lecithin antigen to detect reaginic antibodies.

The presence of neurosyphilis in untreated patients can be detected by the presence of pleocytosis, elevated protein, and a positive VDRL result.

Reference Values

Only orderable as a reflex. For more information see VDSF / VDRL, Spinal Fluid.

Negative
Reference values apply to all ages.

Interpretation

A positive VDRL result on spinal fluid is highly specific for neurosyphilis.

Cautions

The VDRL test using spinal fluid specimens has a high percentage of false-negative results.

Clinical Reference

1. Miller JN. Value and limitations of nontreponemal and treponemal tests in the laboratory diagnosis of syphilis. Clin Obstet Gynecol. 1975;18(1):191-203
2. Radolf JD, Tramont EC, Salazar JC. Syphilis *(Treponema pallidum*). In: Bennett JE, Dolin R, Blaser MJ, eds. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. 9th ed. Elsevier; 2020:2865-2892
3. Tuddenham S, Katz SS, Ghanem KG. Syphilis Laboratory Guidelines: Performance Characteristics of Nontreponemal Antibody Tests. Clin Infect Dis. 2020;71(Suppl 1):S21-S42. doi:10.1093/cid/ciaa306

Performance

Method Description

The VDRL antigen and spinal fluid are mixed on a 180 RPM rotator. The antigen, a cardiolipin-lecithin coated cholesterol particle, flocculates in the presence of reagin.(US Department of Health, Education and Welfare, National Communicable Diseases Center, Venereal Disease Program: Manual of Tests for Syphilis, Centers for Disease Control. 1969; Bennett JE, Dolin R, Blaser MJ, eds. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. 9th ed. Elsevier; 2020)

PDF Report

No

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Day(s) Performed
Monday through Saturday

Report Available
1 to 3 days

Specimen Retention Time
14 days

Performing Laboratory Location
Mayo Clinic Jacksonville Clinical Lab

Fees & Codes

Fees
- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

Test Classification
This test has been cleared, approved, or is exempt by the US Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

CPT Code Information
86593

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
VDSFQ	VDRL Titer, CSF	31146-4

Result ID	Test Result Name	Result LOINC® Value
65036	VDRL Titer, CSF	31146-4