
Overview**Useful For**

Aiding in the diagnosis of neurosyphilis

Testing Algorithm

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

Method Name

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

Flocculation/Agglutination

NY State Available

Yes

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

Reject Due To

Gross hemolysis Reject

Gross lipemia Reject

Specimen Minimum Volume

0.2 mL

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
CSF	Frozen (preferred)	14 days	
	Refrigerated	14 days	

Clinical & Interpretive**Clinical Information**

VDRL 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.

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 on spinal fluid is highly specific for neurosyphilis.

Cautions

VDRL testing on spinal fluid gives a high percentage of false-negatives.

Clinical Reference

1. Miller JN: Value and limitations of nontreponemal and treponemal tests in the laboratory diagnosis of syphilis. Clin Obstet Gynecol. 1975;18:191-203
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

Performance**Method Description**

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. (U.S. 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

Specimen Retention Time

14 days

Performing Laboratory Location

Rochester

Fees & Codes**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	Reporting Name	LOINC®
65036	VDRL Titer, CSF	31146-4