

Overview**Useful For**

Aiding in the diagnosis of extracutaneous sporotrichosis

Method Name

Latex Agglutination

NY State Available

No

Specimen**Specimen Type**

CSF

Specimen Required

Container/Tube: Sterile vial

Specimen Volume: 0.5 mL

Forms

If not ordering electronically, complete, print, and send a [Microbiology Test Request](#) (T244) with the specimen.

Specimen Minimum Volume

0.2 mL

Reject Due To

Gross hemolysis	OK
Gross lipemia	OK

Specimen Stability Information

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

Clinical and Interpretive**Clinical Information**

Sporotrichosis is an endemic fungal infection caused by the dimorphic fungus *Sporothrix schenckii*. Most cases of sporotrichosis have been reported from the subtropical and tropical regions of the Americas, but a global distribution is likely. The organism is often isolated from soil, plants, or plant products (wood), and occupational or recreational exposure to these materials is often implicated in infected individuals.

Infections due to *S schenckii* can be differentiated into several distinct syndromes:

-The cutaneous form of the disease is most common, often arising from sites of minor skin trauma. The primary erythematous papulonodular lesion may range from several millimeters to 4 cm in size. Secondary lesions develop proximally along lymphatic channels. These generally painless lesions usually do not involve lymph nodes, although lymphadenopathy may develop.

-Extracutaneous sporotrichosis can be manifested as osteoarticular involvement of a single joint. Major joints of the extremities (ankle, knee, elbow, hand) are most often involved. The affected joint is swollen and painful, with an attendant effusion. Systemic symptoms are minimal.

-Pulmonary sporotrichosis with cavitory lesions also has been described.

-A multifocal extracutaneous syndrome has been described, consisting of multijoint involvement, or widely scattered cutaneous lesions. Constitutional symptoms (fever, weight loss) are often noted, and spread to bone and central nervous system may occur. Underlying immune system suppression is often a contributing factor. Untreated infection is ultimately fatal.(1)

Reference Values

Negative

Reference values apply to all ages.

Interpretation

Any titer should be considered clinically significant; however, clinical correlation must be present.

Extracutaneous infections, including disseminated and articular infections, produce positive tests.

Cautions

No significant cautionary statements

Clinical Reference

1. Rex JH, Okhuysen PC: *Sporothrix schenckii*. In Bennett JE, Dolin R, Blaser MJ, eds. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. 9th ed. Elsevier; 2020:3131-3136

2. Blumer SO, Kaufman L, Kaplan W, et al: Comparative evaluation for 5 serological methods for the diagnosis of sporotrichosis. Appl Microbiol. 1973 July;26(1):4-8

Performance

Method Description

The test is based upon the principle that latex particles sensitized with sporothrix antigens are agglutinated by antibodies that are specific for those antigens. Antibodies against sporothrix of the IgM class are most effective as agglutinins. Results of the latex agglutination test are available within minutes, as compared to 24 to 48 hours for other serological procedures. Due to the type of test procedure (slide agglutination), immunoglobulins other than IgM are not efficiently detected because of the minimum interparticle distance in the suspension and the molecular dimensions of the other immunoglobulins (IgG, IgA, etc) are not sufficiently large to span the distance efficiently. (Package insert: LA-SPORO Antibody System, Immuno-Mycologics, Inc; 10/17/2018)

PDF Report

No

Day(s) Performed

Monday, Wednesday, Friday

Report Available

Same day/1 to 4 days

Specimen Retention Time

14 days

Performing Laboratory Location

Rochester

Fees and 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 Regional Manager. For assistance, contact [Customer Service](#).

Test Classification

This test was developed, and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information

86671

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
SSPC	Sporothrix Ab, CSF	49860-0

Result ID	Test Result Name	Result LOINC Value
81532	Sporothrix Ab, CSF	49860-0