MAYO CLINIC LABORATORIES

# Test Definition: FUNSF

Fungitell, CSF

## Overview

### Testing Algorithm

For information, see Meningitis/Encephalitis Panel Algorithm.

### Special Instructions

- Meningitis/Encephalitis Panel Algorithm

### Method Name

Limulus Amebocyte Lysate (LAL) Pathway

### NY State Available

Yes

## Specimen

### Specimen Type

CSF

### Specimen Required

**Specimen Type:** Spinal Fluid

**Sources:** CSF

**Container/Tube:** Sterile container

**Specimen Volume:** 2 mL

**Collection Instructions:** Collect 1-3 mL of spinal fluid (CSF) in a sterile container. Ship 2 mL frozen.

### Specimen Minimum Volume

0.2 mL

### Reject Due To

| | |
|---|---|
| Hemolysis | Mild reject; Gross reject |
| Lipemia | Mild reject; Gross reject |
| Icterus | Mild reject; Gross reject |
| Other | NA |

### Specimen Stability Information

| Specimen Type | Temperature | Time | Special Container |
|---|---|---|---|
| CSF | Frozen (preferred) | 30 days | |
| | Ambient | 4 days | |

| | | | |
|---|---|---|---|
| | Refrigerated | 7 days | |

## Clinical & Interpretive

### Clinical Information

The Fungitell Beta-D Glucan assay is indicated for the presumptive diagnosis of invasive fungal disease through detection of elevated levels of (1,3)- Beta-D-glucan in serum. Normal human serum contains low levels of (1,3)- Beta-D glucan, typically 10 to 40 pg/mL, presumably from commensal yeasts present in the alimentary canal and gastrointestinal tract. However, (1,3)- Beta-D-glucan is sloughed from the cell walls during the life cycle of most pathogenic fungi. Thus, monitoring serum for evidence of elevated and rising levels of (1,3)- Beta-D-glucan provides a convenient surrogate marker for invasive fungal disease.

The Fungitell Beta - D Glucan assay detects (1,3) - Beta-D-glucan from the following pathogens: Candida spp., Acremonium, Aspergillus spp., Coccidioides immitis, Fusarium spp., Histoplasma capsulatum, Trichosporon spp., Sporothrix schenckii, Saccharomyces cerevisiae, and Pneumocystis jiroveci. The Fungitell Beta-D Glucan assay does not detect certain fungal species such as the genus Cryptococcus, which produces very low levels of (1,3) - Beta-D-glucan, nor the Zygomycetes, such as Absidia, Mucor, and Rhizopus, which are not known to produce (1,3) - Beta-D-glucan. Studies indicate Blastomyces dermatitidis is usually not detected due to little (1,3) - Beta-D-glucan produced in the yeast phase.

### Reference Values

A reference range for specimens other than serum has not been established.

### Interpretation

The performance characteristics of the Fungitell assay in CSF have been determined by Eurofins Viracor; there are no established criteria for the interpretation of Fungitell results from CSF. Research studies have evaluated the use of the Fungitell assay in CSF during a fungal meningitis outbreak (J. Clin. Microbiol. 2013, 51(4):1285-1287).

## Performance

### PDF Report

No

### Day(s) Performed

Monday through Saturday

### Report Available

1 to 6 days

### Performing Laboratory Location

Eurofins Viracor

## 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.

### CPT Code Information

87449

### LOINC® Information

| Test ID | Test Order Name | Order LOINC® Value |
|---|---|---|
| FUNSF | Fungitell, CSF | Not Provided |

| Result ID | Test Result Name | Result LOINC® Value |
|---|---|---|
| FUNSF | Fungitell, CSF | 95072-5 |