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	
	Refrigerated	7 days	

	Ambient	4 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