

## Overview

### Useful For

Assessment of blood-brain barrier permeability

### Highlights

This test enables quantification of albumin concentration in spinal fluid (CSF) by nephelometry. A standalone CSF albumin concentration has limited clinical utility; it may provide a general assessment of intactness of the blood-brain barrier.

### Method Name

Nephelometry

### NY State Available

Yes

## Specimen

### Specimen Type

CSF

### Advisory Information

The SFIN / Cerebrospinal Fluid (CSF) IgG Index, in conjunction with OLIG / Oligoclonal Banding, Serum and Spinal Fluid is the recommended test for evaluation of multiple sclerosis.

### Specimen Required

**Specimen Type:** Spinal fluid

**Container/Tube:** Sterile vial

**Specimen Volume:** 1 mL

**Collection Instructions:** Label specimen as spinal fluid.

### Specimen Minimum Volume

0.5 mL

### Reject Due To

Gross hemolysis	OK
-----------------	----

### Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
CSF	Refrigerated (preferred)	14 days	
	Frozen	28 days	
	Ambient	14 days	

## Clinical and Interpretive

### Clinical Information

Elevated albumin concentration in spinal fluid may serve as an indicator of the permeability status of the blood-brain barrier. Comparison to an ALB / Albumin, Serum concentration is recommended.

### Reference Values

0.0-27.0 mg/dL

### Interpretation

Elevated albumin concentrations may be observed in patients with a compromised blood-brain barrier.

### Cautions

Cerebrospinal fluid albumin has limited utility as a standalone test.

### Clinical Reference

Schliep G, Felgenhauer K: Serum-CSF protein gradients, the blood-CSF barrier and the local immune response. J Neurol 1978 May 18;218(2):77-96

## Performance

### Method Description

The cerebrospinal fluid (CSF) albumin are determined by immunonephelometry on a Siemens Nephelometer II.(Unpublished Mayo method; Instruction manual: Siemens Nephelometer II, Siemens, Inc., Newark, DE, Version 3, 2008)

### PDF Report

No

### Day(s) and Time(s) Test Performed

Monday through Friday; 2 p.m.

### Analytic Time

Same day/1 day

### Maximum Laboratory Time

2 days

### Specimen Retention Time

2 weeks

### 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 has been modified from the manufacturer's instructions. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

**CPT Code Information**

82042

**LOINC® Information**

Test ID	Test Order Name	Order LOINC Value
ALBSF	Albumin, CSF	1746-7

Result ID	Test Result Name	Result LOINC Value
ALBSF	Albumin, CSF	1746-7