

OLIGOCLONAL  
BANDING  
ELECTROPHORESIS  
CSF

## Orderable - CSFI

Turnaround Time: 15 days

### Specimen:

**Both specimen types are required:**

1. CSF

2. Either a 5 mL Gold top or 6 mL Red top Vacutainer tube

### Collection Information:

Minimum volume of CSF required is 1 mL.  
Minimum volume of serum is 500 uL.

### Reference Ranges:

Negative for oligoclonal banding.

IgG:	10-30 mg/L
Albumin:	<350 mg/L
IgG/Albumin Ratio:	0.00-0.23
IgG/Alb Index:	0.25-0.85 with no visible banding in electrophoresis

For accurate interpretation, the CSF and serum must be assayed together and the results compared.

### Interpretive Comments:

For accurate interpretation, the CSF and serum must be assayed together and results compared.

The oligoclonal banding and CSF index are used in the diagnosis of multiple sclerosis. CSF IgG and Albumin levels are measured simultaneously. In addition to electrophoretic examination of CSF for bands, an index is calculated as follows: CSF IgG x Serum Albumin / Serum IgG x CSF Albumin. In MS the index is usually 1.5-2.0, along with positive bands in CSF electrophoresis. A low index suggests increased entry of serum proteins into CSF.

### Specimen Stability:



**Laboratory:**  
Clinical Immunology Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
Isoelectric Focusing



**Test Schedule:**  
Batched



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CSF is refrigerated at 2 – 8°C for up to 3 days. Store at –20°C for longer storage. Serum can be stored and/or shipped at room temperature for up to 8 hours or refrigerated at 2 – 8°C for up to 5 days. Store at –20°C for longer storage.

**Critical Information Required:**

Both CSF and serum are required to obtain valid results.