

Memo No. 2021-010
Date: 21-Apr-2021
Memo To: Clients
Re: *Oligoclonal Banding, CSF and Serum*

The Biochemistry division at St Michael's Hospital will be implementing important updates to oligoclonal banding test and interpretation **effective 27-Apr-2021**. The update will be in line with the latest guidelines (McDonald criteria) for the diagnosis of multiple sclerosis.

The reports will now include the number of CSF-specific bands, the number of serum and CSF matched bands, and updated interpretative comments. Two or more CSF-specific bands will represent a positive result.

Key Changes

1. A numerical input for "CSF-specific bands"
2. A numerical input for "Serum and CSF matched bands"
3. An "Interpretation" comment box

Interpretative comments (IC):

IC #1: Negative (0-1 CSF-specific bands)

"The oligoclonal band assay detected 0 or 1 CSF-specific IgG band. This is a NEGATIVE result."

IC #2: Positive (≥ 2 unique bands in CSF)

"The oligoclonal band assay detected 2 or more CSF-specific IgG bands. This is a POSITIVE result. CSF studies can be used for the diagnosis of multiple sclerosis (MS) by identifying intrathecal IgG synthesis (oligoclonal bands). The presence of two or more CSF-specific oligoclonal bands can support a diagnosis of MS according to the 2017 revised McDonald criteria. These findings, however, are not 100% specific for MS. CSF-specific IgG synthesis may also be found in patients with other neurologic diseases including infectious, inflammatory, cerebrovascular, and paraneoplastic disorders. Clinical correlation recommended."

IC #3: CSF only – Negative (0-1 unique bands in CSF)

"The oligoclonal band assay detected 0 or 1 CSF IgG band. This is a NEGATIVE result."

IC #4: CSF only, incomplete (≥ 2 unique bands in CSF)

"There are 2 or more CSF bands in the specimen received, however, we are unable to determine if the bands are specific to CSF as a serum sample was not submitted. A conclusive interpretation is not possible. Recommend submitting a serum sample drawn within 14 days of the CSF sample."

IC #5: Monoclonal banding pattern

"There is a monoclonal banding pattern seen in both the CSF and serum. The bands likely represent a systemic monoclonal gammopathy. Clinical correlation recommended."

If you have further questions, please contact Client Care at (416) 422-3000 Ext. 300 or info@ICLabs.ca

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Want to receive updates by e-mail? Please contact Client Care info@ICLabs.ca

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Website revision effective 27-Apr-2021:

Results

Name	Units	Reference Range
IgG, CSF	g/L	<0.060
Albumin, CSF	g/L	0.100 - 0.250
IgG/Albumin Ratio		<0.250
Albumin Index		<0.9
IgG Index		<70
CSF Specific bands		<2
Serum and CSF Matched Bands		
OLIG Interpretation		
Serum IgG	g/L	6.35 - 17.41
Serum Albumin	g/L	35.00 - 50.00

HL7 Interface Codes

Order Code	Result Codes	Units
OLBAN CS	3060 IgG, CSF	g/L
	3061 Albumin, CSF	g/L
	36614 IgG/Albumin Ratio	
	36610 Albumin Index	
	36612 IgG Index	
	63561 CSF Specific Bands	
	63562 Serum and CSF Matched Bands	
	36616 OLIG Interpretation	
	63563 Serum IgG	g/L
	63564 Serum Albumin	g/L