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**Reporting Title:** Lyme CNS Infection IgG w/ AI Reflex**Performing Location:** Rochester**Ordering Guidance:**

This test should be ordered in patients with suspected neuroinvasive Lyme disease. It is preferred for diagnosis of neuroinvasive Lyme disease over testing of spinal fluid (CSF) by immunoblot for IgM and IgG class antibodies to *Borrelia* species associated with Lyme disease. This test can help distinguish true intrathecal synthesis of antibodies to Lyme disease in the CSF, indicating neuroinvasive infection, versus antibody presence due to passive diffusion through the blood-brain barrier or, possibly, due to blood contamination of the CSF as a result of a traumatic lumbar puncture.

For Lyme testing on serum, order LYME / Lyme Disease Serology, Serum.

**Additional Testing Requirements:**

Although a small percentage of patients with neuroinvasive Lyme disease may be seronegative, it is recommended that all patients tested by this assay also have standard 2-tiered testing for Lyme disease performed (LYME / Lyme Disease Serology, Serum).

**Specimen Requirements:**

**Both spinal fluid (CSF) and serum are required for this test. CSF and serum must be collected within 24 hours (maximum) of each other.**

**Specimen Type:** Spinal fluid**Container/Tube:** Sterile vial**Specimen Volume:** 1.2 mL**Collection Instructions:**

1. A CSF sample of 1.2 mL needs to be collected within 24 hours of the serum specimen, preferably at the same time.
2. Label vial as spinal fluid or CSF.
3. CSF aliquot should be from the second, third, or fourth CSF vial collected during the lumbar puncture.

**Do not submit CSF from the first vial due to the possibility of blood contamination, which will cause specimen rejection.**

4. Band specimens together.

**Specimen Type:** Serum**Supplies:** Sarstedt Aliquot Tube, 5 mL (T914)**Collection Container/Tube:****Preferred:** Serum gel**Acceptable:** Red top**Submission Container/Tube:** Plastic vial**Specimen Volume:** 1.2 mL**Collection Instructions:**

1. A serum sample of 1.2 mL needs to be collected within 24 hours of the spinal fluid specimen, preferably at the same time.
2. Centrifuge and aliquot serum into a plastic vial.

# Test Definition: LNBAB

Lyme Central Nervous System Infection IgG  
with Antibody Index Reflex, Serum and Spinal  
Fluid

3. Label as serum.
4. Band specimens together.

**Forms:**

If not ordering electronically, complete, print, and send [Infectious Disease Serology Test Request](#) (T916) with the specimen.

Specimen Type	Temperature	Time	Special Container
CSF	Refrigerated (preferred)	11 days	
	Frozen	35 days	
Serum	Refrigerated (preferred)	11 days	
	Frozen	35 days	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
LNB1	Lyme CNS Infection IgG, CSF	Alphanumeric		92813-5
LNB2	Lyme CNS Infection IgG Interp	Alphanumeric		69048-7
LNBAS	Lyme CNS Infection IgG, S	Alphanumeric		92814-3

LOINC® and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**Components:**

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
LNBAC	Lyme CNS Infection IgG Screen, CSF	1	86618	Yes	No
LNBAS	Lyme CNS Infection IgG, S			No	No

**CPT Code Information:**

- 86618
- 86618 x2 - if applicable
- 82040 - if applicable
- 82042- if applicable
- 82784 x2 - if applicable

**Reflex Tests:**

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
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Test Definition: LNBAB

Lyme Central Nervous System Infection IgG  
with Antibody Index Reflex, Serum and Spinal  
Fluid

LNBAI	Lyme CNS Infection IgG, Ab Index	1	86618	No	No
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Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
LNBAI	LNB3	Lyme CNS IgG Ab Index Value	Numeric		92811-9
LNBAI	LNB4	Lyme CNS IgG Ab Index Interp	Alphanumeric		69048-7

Reference Values:

Negative

Reference values apply to all ages.