

TECHNICAL BULLETIN

NEW TEST **TEST CHANGE**

NOTIFICATION DATE: 07/27/2023

EFFECTIVE DATE: 07/28/2023

Lyme Disease Ab Pair Index Reflex (LYMEPAIR)

On the effective date, Northwell Health Laboratories will now offer the Lyme Disease Ab Pair Index Reflex test performed by Mayo Medical Laboratories. This test will no longer be performed at the Stony Brook Lyme Disease Laboratory.

Testing algorithm:

If the IgG screen of the CSF is negative, no additional testing will be performed.

If the IgG screen of the CSF is positive, the paired CSF and serum specimens will be used to establish the antibody index. In order to establish the antibody index, the paired serum and CSF samples (collected within 24 hours of each other) are tested on the same run using quantitative assays to determine levels for the following analytes:

1. Anti-*Borrelia* species IgG levels in CSF and serum
2. Total IgG in CSF and serum
3. Albumin in CSF and serum

These additional tests are necessary in order to normalize the level of anti-*Borrelia* antibodies to total IgG and albumin in the CSF and establish the antibody index ratio of anti-*Borrelia* antibodies in CSF-to-serum. This testing is performed at an additional charge.

Test Requirement/Parameters	Lyme Disease Ab Pair Index Reflex	
Method	Enzyme-linked Immunosorbant Assay (ELISA)	
Specimen Requirements	Serum and CSF	
Submission Container/Tube	Gold Top Tube and Sterile Vial	
Specimen Volume/Minimum Volume	1.2 mL Serum and 1.2 mL CSF collected within 24 hours of each other.	
Collection Instructions	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. A serum sample of 1.2 mL needs to be collected within 24 hours of the spinal fluid specimen, preferably at the same time.	
Specimen Stability	Serum and CSF	11 Days Refrigerated 35 Days Frozen
Reference Range	Negative	
CPT Code	86618	Reflex CPT Codes 86618 x2 – if applicable 82040 – if applicable 82042 – if applicable 82784 x2 – if applicable
Computer Interface Code	PDM #TBD	
Test Order	LYMEPAIR	

If you have any questions, please contact Client Services at (800) 472-5757.

