



Change in Lyme Screen Confirmatory Assays

Serological testing for Lyme disease requires a two-tiered approach beginning with an immunoassay followed by confirmatory testing.

Our first tier assay, DiaSorin Lyme Total Antibody Plus, incorporates antigens VlsE and OspC. These outer surface proteins are thought to play major roles in the immune response with OspC serving as the immunodominant antigen of the IgM response during early stage infection and VlsE producing strong antibody response at all stages of disease, including the early stage.¹

Currently, Laboratory Alliance of CNY confirms our screening test for Lyme total antibodies (which detects both IgG and IgM) using the Standard Two-Tier Testing strategy (STTT), sending all positive or equivocal samples to our reference lab for confirmation by immunoblot testing.

Beginning 4/30/2024, our second tier assays will be DiaSorin Lyme IgG and DiaSorin Lyme IgM assays. We will begin using the Modified Two-Tier Testing strategy (MTTT), confirming all positive or equivocal samples with individual immunoassays for Lyme IgG and Lyme IgM.

All testing will be performed at Laboratory Alliance Operations Center. Confirmatory testing will be completed using the same sample and will be reported on the same day as the initial screening assay results. The new assays will be performed only as confirmation of positive or equivocal screening results and will not be orderable other than by reflex testing within the laboratory.

Test Name	Test Code	CPT Code	Schedule of Testing	Specimen Requirements
Lyme Disease IgM / IgG Antibodies (with reflex to immunoassay panel)	LYME	86618 If reflexed, add 86618x2	Mon - Sat	1 gold top, 2 mL serum Stable 7 days at 2-8°C
All positive or equivocal results will reflexively order Lyme IgG and Lyme IgM immunoassay confirmatory testing (MTTT)				

Questions regarding Lyme testing may be directed to Jeffrey DeGroat, AS, MT, Chemistry Manager, at 315-410-7028 or jeffdegroat@lacny.com.

References:

Liaison Lyme Total Antibody Plus Instructions for Use. DiaSorin Inc., 1951 Northwestern Avenue Stillwater, MN 55082-0285, 1-800-328-1482. Ref 318330, US – 54547 – 2021-04