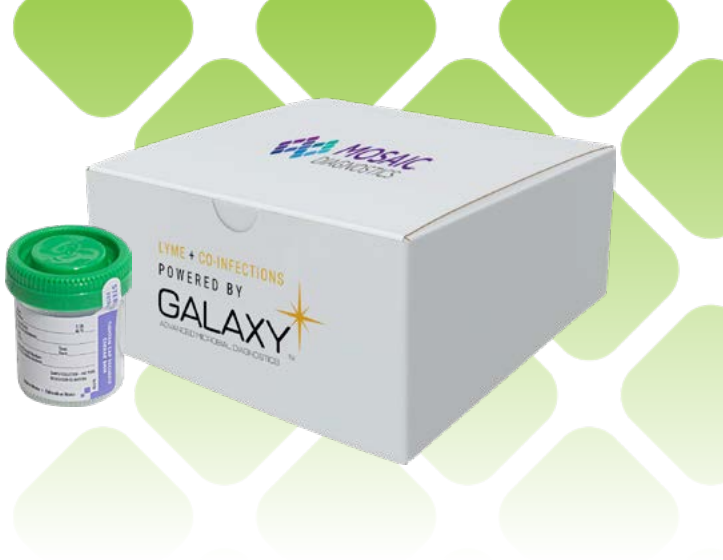
Lyme + Co-infections



Designed to Detect at Every Stage

Lyme Borrelia Direct Detect
Nanotrap®

A revolutionary test that utilizes direct detection to confirm the presence of Borrelia infection, indicating presence of Lyme disease in patients.

- **Identifies positive cases** missed by conventional Two-Tiered Testing (TTT)
- **Reduces concern for false positive** results by direct detection of OspA antigen.
- **Confirms current infection** by detecting OspA antigen in easy-to-collect urine samples.

Tickborne BBB Direct Detect
Borrelia + Bartonella + Babesia – Digital PCR

The most sensitive test methodology available for direct detection of Bartonella, Babesia, and Borrelia (BBB) species (spp) pathogens.

- **Confirms current presence of pathogens** by detecting DNA for a broad range of Bartonella, Borrelia, and Babesia species in whole blood at the genus level.

Bartonella IgG Detect
IFA

This immunofluorescent assay provides broad coverage to confirm exposure to the four main species affecting humans in North America; *B. henselae, B. quintana, B. vinsonii berkhoffii, B. koehlerae*

- **Accurate:** Provides precise, semi-quantitative antibody levels and accurate titers.
- **Sensitive and Specfic:** Uses cell-culture-derived antigens from clinical isolates, not synthetic. A 2020 NCSU study showed 97% specificity.
- **Minimizes cross-reactivity:** Ensures reliable and specific results, addressing common challenges in serological testing.

Scan QR code now to learn more about our Lyme + Co-Infections Tests

MOSAIC DIAGNOSTICS

Lyme + Co-infections

CERTIFIED BY THESE PRESTIGIOUS ORGANIZATIONS

CLIA Certified | CDPH

Test ID		Lyme Borrelia Direct Detect	Bartonella IgG Detect – IFA	Tickborne BBB Direct Detect (1 or 3 day)
	Methodology	Nanotrap® Direct	Immunofluorescence (IFA) Indirect	Digital PCR (dPCR) Direct
	Sample Type	Urine	Serum (yellow top)	Blood (lavender top)
	Description	Confirms current presence of OspA antigen in easy-to-collect urine samples.	Confirms antibodies against the four most common species of inection based on published research.	Confirms current presence of pathogens by detecting DNA for a broad range of Bartonella, Borrelia, and Babesia species in whole blood.
	INDIVIDUAL PROFILES			
1	Lyme Borrelia Direct Detect	✓		
2	Bartonella IgG Detect – IFA		✓	
3	Tickborne BBB Direct Detect – 1 day			✓
7	Tickborne BBB Direct Detect – 3 day			✓
	COMBINATION PROFILES			
4	Lyme + Bartonella IgG Detect	✓	✓	
5	Tickborne BBB Plus – 1 day		✓	✓
8	Tickborne BBB Plus – 3 day		✓	✓
6	Lyme + Co-infections Comprehensive – 1 day	✓	✓	✓
9	Lyme + Co-infections Comprehensive – 3 day	✓	✓	✓

Test (by clinical suspicion)

Lyme-only suspicion

1 — **Lyme Borrelia Direct Detect (Nanotrap)**
Best matrix for Lyme; validated in acute (EM rash) and chronic/PTLDS populations.

Bartonella suspicion

5 (1 day) 8 (3 day) — **Tickborne BBB Plus**
= Tickborne BBB Direct Detect + Bartonella IgG Detect

Babesia suspicion

3 (1 day) 7 (3 day) — **Tickborne BBB Direct Detect**
Triple (3 day) vs single (1 day) blood draw - When feasible, choose triple draw for Tickborne BBB Direct Detect—serial sampling increases the probability of detecting low-abundance pathogens.

Tick-borne illness, unsure which pathogen

6 (1 day) 9 (3 day) — **Lyme + Co-infections Comprehensive**
= Lyme Borrelia Direct Detect + Bartonella IgG Detect + BBB Direct Detect

MOSAIC DIAGNOSTICS
Visit MosaicDX.com for more resources
(800) 288-0383 customerservice@mosaicdx.com
8400 W 110th Street, Suite 500, Overland Park, KS 66210

All trademarks are owned by the company and its affiliates.
©2025 Mosaic Diagnostics. All Rights Reserved.
MDX-LYME-COMP-ONE-SHEET 10-2025 v.1