

REFERRING PHYSICIAN

**RUPA HEALTH
1750 ELM ST #1200
MANCHESTER, NH 03104**

**CASADABAN, HUDSON DUTCH
DOB: 03/23/2004
Gender: MALE
Accession: B047884
Patient ID: 290425**

Collected: 01/06/2026 UNK
 Received: 01/08/2026 13:24
 Reported: 01/15/2026 18:27
 Reprinted: 01/16/2026 08:18
 Amended:
 Corrected:

TEST	SPECIMEN	RESULT	REFERENCE RANGE	UNITS
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BORRELIOSIS - Lyme Disease

Lyme ImmunoBlot IgM

Serum

Negative
Negative

IGX Criteria:

CDC/NYS Criteria:

[REVISED REPORT: EFFECTIVE APRIL 10, 2019]

Lyme ImmunoBlot IgM detects antibodies to *B. burgdorferi* strains and species

Band (kDa)	23*	31*	34*	39*	41*	93
Intensity	+	-	-	-	-	-

Band Intensity: Positive: + to +++, Indeterminate: Ind, Negative: (-)

INTERPRETATION
IGX CRITERIA

Positive

2 or more of the starred bands are present (+): 23*, 31*, 34*, 39*, 41* kDa

Negative

Does not meet IGX criteria for a positive.

CDC/NYS CRITERIA

2 or more of the following bands are present (+): 23*, 39*, 41* kDa

Does not meet CDC/NYS criteria for a positive.

LIMITATION: Bands 31* and 34* kDa are present in Lyme vaccinated patients. Viral antibodies cross react with the 93 kDa antigen.

Testing performed at IGeneX 556 Gibraltar Drive Milpitas CA 95035 (800) 832-3200

Diagnosis should not be based on laboratory results alone. Results should be interpreted in conjunction with clinical symptoms and patient history.

NOTE: Western Blots, ImmunoBlots, Lyme Dot Blot, Epitope, PCR, IFA, FISH, *C. pneumoniae* IgG/IgA, CD57, IGXSpot, Broad Coverage Antibody, COVID-19 Test - These tests were developed and their performance characteristics determined by IGeneX, Inc. They have not been cleared or approved by the FDA. The FDA has determined that such approval is not necessary. These tests are used for clinical purposes and should not be regarded as investigational or for research. IGeneX, Inc. is licensed by CMS and NYS to perform high complexity clinical laboratory testing.

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LYME IMMUNOBLOT IGM SPECIATION

Revised report:06-09-22

B. burgdorferi US(genus) Serum Negative
B. burgdorferi US Spp. Serum Negative

BbSs: Borrelia burgdorferi sensu stricto includes but not limited to

B. burgdorferi B31 and *B. burgdorferi* 297.

BbSl: *Borrelia burgdorferi* sensu lato includes but not limited to *B.*

mayonii and *B. californiensis*.

B. burgdorferi European(genus) Serum Negative
B. burgdorferi European Spp Serum Negative

Borrelia burgdorferi European species include but not limited to *B.*

afzelii, *B. garinii*, *B. spielmanii* and *B. valaisiana*.

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TEST	SPECIMEN	RESULT	REFERENCE RANGE	UNITS								
Lyme ImmunoBlot IgG	Serum											
IGX Criteria:		Negative										
CDC/NYS Criteria:		Negative										

[REVISED REPORT: EFFECTIVE APRIL 10, 2019]												
Lyme ImmunoBlot IgG detects antibodies to <i>B. burgdorferi</i> strains and species												
Band (kDa)	18	23*	28	30	31*	34*	39*	41*	45	58	66	93*
Intensity	-	-	-	-	-	-	-	-	+	-	-	-

Band Intensity: Positive: + to ++++. Indeterminate: Ind. Negative: (-)

INTERPRETATION

IGX CRITERIA

Positive

2 or more of the starred bands are present (+): 23*, 31*, 34*, 39*, 41*, 93* kDa

Negative

Does not meet IGX criteria for a positive.

CDC/NYS CRITERIA

5 or more of the following bands are present (+): 18, 23*, 28, 30, 39*, 41*, 45, 58, 66, 93* kDa

LIMITATION: Bands 31* and 34* kDa are present in Lyme vaccinated patients. Viral antibodies cross react with the 93 kDa antigen.

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LYME IMMUNOBLOT IGG SPECIATION

Revised report: 06-09-22

B. burgdorferi US(genus)	Serum	Negative
B. burgdorferi US spp	Serum	Negative

BbSs: Borrelia burgdorferi sensu stricto includes but not limited to

B. burgdorferi B31 and B. burgdorferi 297.

BbSl: Borrelia burgdorferi sensu lato includes but not limited to B.

mayonii and B. californiensis.

B. burgdorferi European(genus)	Serum	Negative
B. burgdorferi European Spp	Serum	Negative

Borrelia burgdorferi European species include but not limited to B.

afzelii, B. garinii, B. spielmanii and B. valaisiana.

Lyme Multiplex PCR - Serum	Serum	Negative
Serum - Genomic	Serum	Negative
Serum - Plasmid	Serum	Negative

Lyme Multiplex PCR -Whole Blood	W blood	Negative
Whole blood - Genomic	W blood	Negative
Whole blood - Plasmid	W blood	Negative

LYME SCREEN IMMUNOASSAY IGM		
Lyme Screen IgM	Serum	Negative
		Negative

* FOR POSITIVE RESULT, TESTING BY IMMUNOBLOT IGM OR IGG IS
RECOMMENDED.

rev.03/12/25

LYME SCREEN IMMUNOASSAY IGG

Lyme Screen IgG	Serum	Negative	Negative
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* FOR POSITIVE RESULT, TESTING BY IMMUNOBLOTTING IGM OR IGG IS

RECOMMENDED. rev.03/12/25

BABESIOSIS

B. microti IFA - IgM	Serum	<20	< 20 : Negative = 20 : May or may not indicate active infection ≥ 40 : Indicates active infection	Titer
B. microti IFA - IgG	Serum	<40	< 40 : Negative < 160 : May or may not suggest active infection ≥ 160 : Indicates active infection	Titer
Babesia FISH	W blood	Negative		

EHRLICHIOSIS

HME IFA - IgM	Serum	<20	< 20 : Negative = 20 : May or may not indicate active infection ≥ 40 : Indicates active infection	Titer
HME IFA - IgG	Serum	<40	< 40 : Negative < 160 : May or may not suggest active infection ≥ 160 : Indicates active infection	Titer

ANAPLASMOSIS

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HGA IFA - IgM	Serum	20	< 20 : Negative = 20 : May or may not indicate active infection ≥ 40 : Indicates active infection	Titer
HGA IFA - IgG	Serum	<40	< 40 : Negative ≤ 160 : May or may suggest active infection ≥ 160 : Indicates active infection	Titer
BARTONELLOSIS				
B henselae IFA - IgM	Serum	<20	< 20 : Negative = 20 : May or may not indicate active infection ≥ 40 : Indicates active infection	Titer
B henselae IFA - IgG	Serum	<40	< 40 : Negative ≤ 160 : May or may suggest active infection ≥ 160 : Indicates active infection	Titer
RICKETTSIOSIS				
R. rickettsii IFA - IgG	Serum	<40	< 40 : Negative ≤ 160 : May or may suggest active infection ≥ 160 : Indicates active infection	Titer

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TEST	SPECIMEN	RESULT	REFERENCE RANGE	UNITS
R. typhi IFA - IgG	Serum	<40	< 40 : Negative < 160 : May or may not suggest active infection >=160 : Indicates active infection	Titer



End of Report

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