

REFERRING PHYSICIAN

CASADABAN, HUDSON DUTCH

DOB: 03/23/2004

Gender: MALE

Accession: B047884

Patient ID: 290425

RUPA HEALTH  
1750 ELM ST #1200  
MANCHESTER, NH 03104

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
------	----------	--------	-----------------	-------

**BORRELIOSIS - Lyme Disease**

Lyme ImmunoBlot IgM Serum  
IGX Criteria: Negative  
CDC/NYS Criteria: Negative  
\*\*\*

[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**

**CDC/NYS CRITERIA**

**Positive**

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

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

**Negative**

Does not meet IGX criteria for a positive.

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.

CASADABAN, HUDSON DUTCH

DOB: 03/23/2004

Gender: MALE Accession: B047884

Patient ID: 290425

Physician: RUPA HEALTH Client: 36971

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:

CASADABAN, HUDSON DUTCH

TEST	SPECIMEN	RESULT	REFERENCE RANGE	UNITS
TEST	SPECIMEN	RESULT	REFERENCE RANGE	UNITS

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.*

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.

CASADABAN, HUDSON DUTCH

CASADABAN, HUDSON DUTCH

DOB: 03/23/2004

Gender: MALE Accession: B047884

Patient ID: 290425

Physician: RUPA HEALTH Client: 36971

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
------	----------	--------	-----------------	-------

Lyme ImmunoBlot IgG Serum  
IGX Criteria: Negative  
CDC/NYS Criteria: Negative

\*\*\*

[REVISED REPORT: EFFECTIVE APRIL 10, 2019]

Lyme ImmunoBlot IgG detects antibodies to B. burgdorferi 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

**Positive**

#### IGX CRITERIA

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

#### CDC/NYS CRITERIA

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

**Negative**

Does not meet IGX criteria for a positive.

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.

CASADABAN, HUDSON DUTCH

CASADABAN, HUDSON DUTCH

DOB: 03/23/2004

Gender: MALE Accession: B047884

Patient ID: 290425

Physician: RUPA HEALTH Client: 36971

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
------	----------	--------	-----------------	-------

## 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 - Genomic Serum Negative  
 Serum - Plasmid Serum Negative

Lyme Multiplex PCR -Whole Blood  
 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

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.

CASADABAN, HUDSON DUTCH

DOB: 03/23/2004

Gender: MALE Accession: B047884

Patient ID: 290425

Physician: RUPA HEALTH Client: 36971

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:

CASADABAN, HUDSON DUTCH

TEST	SPECIMEN	RESULT	REFERENCE RANGE	UNITS
------	----------	--------	-----------------	-------

\* FOR POSITIVE RESULT, TESTING BY IMMUNOBLOT 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

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.

CASADABAN, HUDSON DUTCH

DOB: 03/23/2004

Gender: MALE Accession: B047884

Patient ID: 290425

Physician: RUPA HEALTH Client: 36971

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:

CASADABAN, HUDSON DUTCH

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

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.

**CASADABAN, HUDSON DUTCH**  
**DOB: 03/23/2004**  
**Gender: MALE Accession: B047884**  
**Patient ID: 290425**  
**Physician: RUPA HEALTH Client: 36971**

**CASADABAN, HUDSON DUTCH**

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
R. typhi IFA - IgG	Serum	<40	< 40 : Negative < 160 : May or may not suggest active infection >=160 : Indicates active infection	Titer



**End of Report**

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.