

Panel #	Panel	CPT Code	Price
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<b>2010</b>	<b>AUTOIMMUNE PROFILE - BASIC</b>		<b>99.00</b>
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Anti-Nuclear Antibody (ANA)	86038	33.00
Rheumatoid Factor	86431	33.00
C1Q Immune Complex	86332	33.00



**Specimen requirements:**

Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

<b>2011</b>	<b>AUTOIMMUNE PROFILE (COMPREHENSIVE)</b>		<b>210.00</b>
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Anti-Nuclear Antibody (ANA)	86038	33.00
Extractable Nuclear Antigen (ENA) Antibody	86235	33.00
Double-Stranded DNA (dsDNA) Antibody	86226	33.00
Rheumatoid Factor	86431	33.00
C1Q Immune Complex	86332	33.00
Actin (Smooth Muscle) Antibody	83520	33.00
Mitochondrial Antibody	83516	33.00



**Specimen requirements:**

Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

<b>2012</b>	<b>ARTHRITIS PANEL</b>		<b>99.00</b>
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Rheumatoid Factor	86431	33.00
C1Q Immune Complex	86332	33.00
Citrullinated Peptide Antibody	86200	33.00



**Specimen requirements:**

Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

<b>2013</b>	<b>AUTOIMMUNE LIVER DISEASE</b>		<b>66.00</b>
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Actin (Smooth Muscle) Antibody	83520	33.00
Mitochondrial Antibody	83516	33.00




**Specimen requirements:**

Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

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<b>2014</b>	<b>GASTROINTESTINAL AUTOIMMUNITY &amp; GLUTEN SENSITIVITY</b>		<b>150.00</b>
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Gastric Parietal Cell (GPA) Antibody	83516	33.00
Deamidated Gliadin Peptide IgG	83520	33.00
Deamidated Gliadin Peptide IgA	83520	33.00
Transglutaminase IgG	83516	33.00
Transglutaminase IgA	83516	33.00

 **Specimen requirements:**  
 Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum


<b>2015</b>	<b>B. BURGDORFERI IgG, IgM BY ELISA</b>		<b>100.00</b>
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Borrelia burgdorferi IgG	86618	50.00
Borrelia burgdorferi IgM	86618	50.00

 **Specimen requirements:**  
 Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

<b>2016</b>	<b>B. BURGDORFERI IgG, IgM BY WESTERN BLOT</b>		<b>120.00</b>
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Borrelia burgdorferi IgG, WB	84181	60.00
Borrelia burgdorferi IgM, WB	84181	60.00

 **Specimen requirements:**  
 Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

<b>2017</b>	<b>IMMUNOSEROLOGY OF LYME PANEL A</b>		<b>450.00</b>
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The Multi-Peptide ELISA for the detection of Lyme disease is covered by Patent # US 7,390,626 B2 awarded to Aristo Vojdani and Immunosciences Lab., Inc.

<b>Lyme-Specific Antibodies</b>		
• Borrelia burgdorferi (IgG, IgM)	86618 x 2	
• OspA + OspC Peptides (IgG, IgM)	86618 x 2	
• OspE Peptide (IgG, IgM)	86618 x 2	
• Leukocyte Function Associated Antigen (IgG, IgM)	86618 x 2	
• Immunodominant Protein (IgG, IgM)	86618 x 2	
• Variable Major Protein (IgG, IgM)	86618 x 2	
<b>Borrelia Subspecies Antibodies</b>		
• B. b. sensu stricto (IgG, IgM)	86618 x 2	
• B. garinii (IgG, IgM)	86618 x 2	
• B. afzelii (IgG, IgM)	86618 x 2	
<b>Lyme Co-Infection</b>		
• Babesia (IgG, IgM)	86618 x 2	
• Ehrlichia (IgG, IgM)	86666 x 2	
• Bartonella (IgG, IgM)	86618 x 2	

 **Specimen requirements:**  
 Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

Panel #	Panel	CPT Code	Price
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<b>2018</b>	<b>IMMUNOSEROLOGY OF LYME PANEL B</b>		<b>550.00</b>
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The Multi-Peptide ELISA for the detection of Lyme disease is covered by Patent # US 7,390,626 B2 awarded to Aristo Vojdani and Immunosciences Lab., Inc.

- Lyme-Specific Antibodies**
- Borrelia burgdorferi (IgG, IgM) 86618 x 2
  - OspA + OspC Peptides (IgG, IgM) 86618 x 2
  - OspE Peptide (IgG, IgM) 86618 x 2
  - Leukocyte Function Associated Antigen (IgG, IgM) 86618 x 2
  - Immunodominant Protein (IgG, IgM) 86618 x 2
  - Variable Major Protein (IgG, IgM) 86618 x 2
- Borrelia Subspecies Antibodies**
- B. b. sensu stricto (IgG, IgM) 86618 x 2
  - B. garinii (IgG, IgM) 86618 x 2
  - B. afzelii (IgG, IgM) 86618 x 2
- Lyme Co-Infection**
- Babesia (IgG, IgM) 86618 x 2
  - Ehrlichia (IgG, IgM) 86666 x 2
  - Bartonella (IgG, IgM) 86618 x 2
- Western Blot Assay**
- B. burgdorferi (IgG, IgM) 84181 x 2



**Specimen requirements:**  
 Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

<b>2019</b>	<b>EPSTEIN-BARR VIRUS (EBV) PANEL</b>		<b>150.00</b>
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- EBV Viral Capsid (VCA) IgG 86665 33.00
- EBV Viral Capsid (VCA) IgM 86665 33.00
- EBV Early Antigen (EA) - D IgG 86663 33.00
- EBV Nuclear Antigen (EBNA) IgG 86664 33.00
- EBV Nuclear Antigen (EBNA) IgM 86664 33.00



**Specimen requirements:**  
 Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

<b>2020</b>	<b>VIRAL SCREEN</b>		<b>180.00</b>
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- EBV Viral Capsid (VCA) IgG 86665 33.00
- EBV Viral Capsid (VCA) IgM 86665 33.00
- Cytomegalovirus (CMV) IgG 86644 33.00
- Cytomegalovirus (CMV) IgM 86645 33.00
- Herpes simplex Virus (HSV) 1+2 IgG 86694 33.00
- Herpes simplex Virus (HSV) 1+2 IgM 86694 33.00



**Specimen requirements:**  
 Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

Panel #	Panel	CPT Code	Price
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2022	VIRAL PANEL PREMIER		360.00
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EBV Viral Capsid (VCA) IgG	86665	33.00
EBV Viral Capsid (VCA) IgM	86665	33.00
EBV Early Antigen (EA) - D IgG	86663	33.00
EBV Nuclear Antigen (EBNA) IgG	86664	33.00
EBV Nuclear Antigen (EBNA) IgM	86664	33.00
Cytomegalovirus (CMV) IgG	86644	33.00
Cytomegalovirus (CMV) IgM	86645	33.00
Herpes simplex Virus (HSV) 1+2 IgG	86694	33.00
Herpes simplex Virus (HSV) 1+2 IgM	86694	33.00
Human Herpes Type 6 (HHV-6) IgG	86694	33.00
Human Herpes Type 6 (HHV-6) IgM	86694	33.00
Varicella zoster (VZV) IgG	86787	33.00



**Specimen requirements:**

Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

2023	VIRAL PANEL COMPREHENSIVE		420.00
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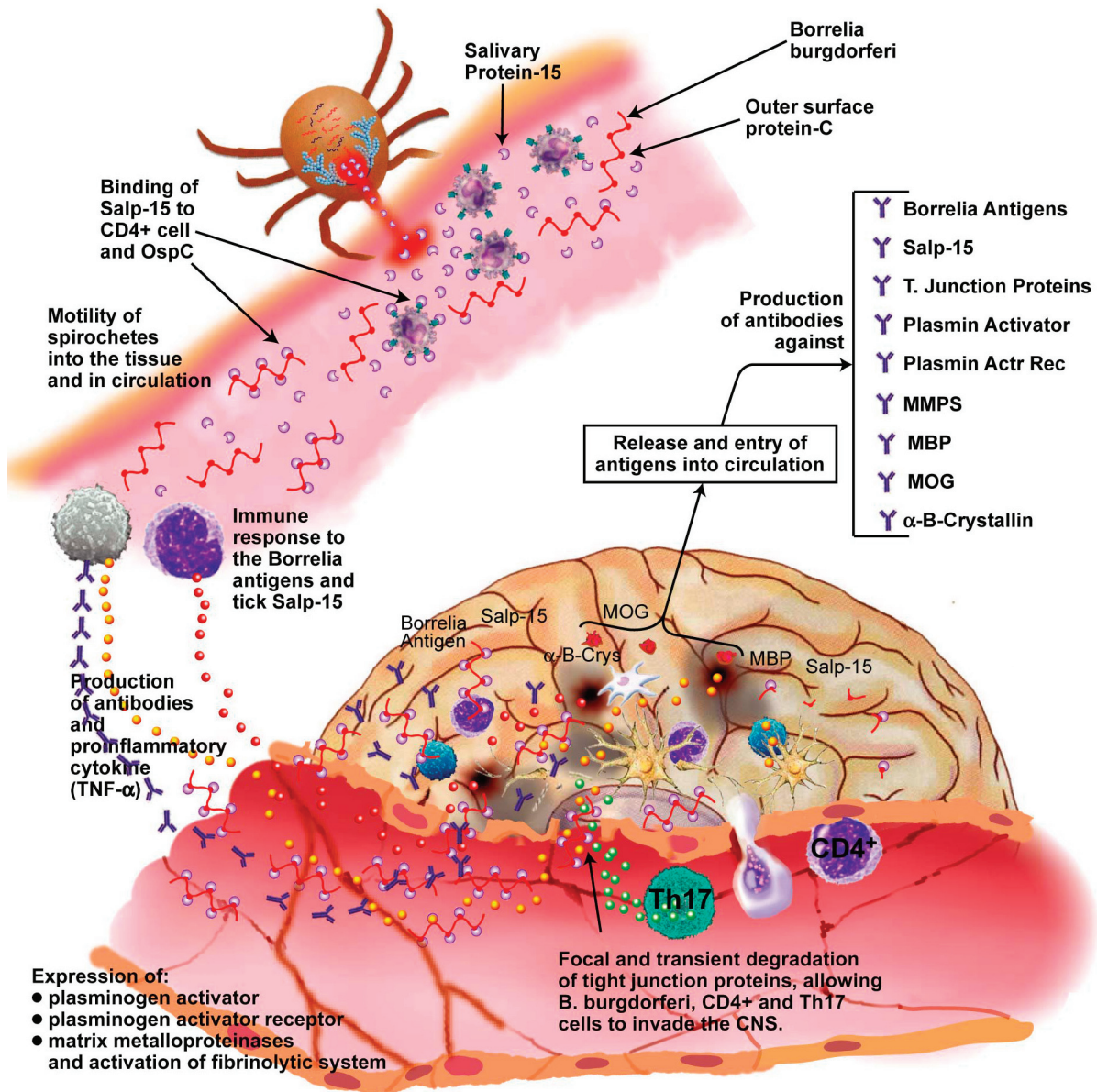
EBV Viral Capsid (VCA) IgG	86665	33.00
EBV Viral Capsid (VCA) IgM	86665	33.00
EBV Early Antigen (EA) - D IgG	86663	33.00
EBV Nuclear Antigen (EBNA) IgG	86664	33.00
EBV Nuclear Antigen (EBNA) IgM	86664	33.00
Cytomegalovirus (CMV) IgG	86644	33.00
Cytomegalovirus (CMV) IgM	86645	33.00
Herpes simplex Virus (HSV) 1+2 IgG	86694	33.00
Herpes simplex Virus (HSV) 1+2 IgM	86694	33.00
Human Herpes Type 6 (HHV-6) IgG	86694	33.00
Human Herpes Type 6 (HHV-6) IgM	86694	33.00
Varicella zoster (VZV) IgG	86787	33.00
Rubeola (Measles) IgG	86765	33.00
Rubeola (Measles) IgM	86765	33.00



**Specimen requirements:**

Collect: 5 mL red top or tiger top  
 Transport: 2 mL serum  
 Pediatric: Transport 0.5 mL serum

# Mechanism responsible for *Borrelia* induction of autoimmunity and its detection by Multi-Peptide ELISA



Based on the above mechanism responsible for *Borrelia*-induced neuroautoimmunity, Immunosciences Lab uses the most sensitive patented method for the detection of antibodies against Lyme and other tick-borne diseases (*Babesia*, *Ehrlichia*, *Bartonella*).

Immunosciences' new generation assessments for Lyme disease cover the measurements of antibodies to antigens of *Borrelia* grown in culture (the traditional method), as well as the antibodies to proteins associated with the spirochete's expression of a variety of antigens during human infection.

As shown above, once the spirochete enters the host, it hides from immune attack by changing its antigenic structure. This allows the spirochete to move, undetected, through the blood stream or burrow deep into any tissue. Traditional testing cannot reveal antibodies made against these new antigens. In addition, ISL's Lyme profiles assess infection with three different subspecies of *Borrelia* and examines their cross-reaction with *Babesia*, *Ehrlichia* and *Bartonella*.

Utilization of this methodology will increase the accuracy of the diagnostic process and abridge the time to treatment, resulting in improved quality of care and disease prognosis.