



Medical Diagnostic Laboratories (MDL)

**Lyme/Vector-Borne Disease Specialty Laboratory since 1997**

**CDC Estimates 300,000 cases of Lyme disease per year**

- CDC & Alternative Interpretation criteria
- Detection of Lyme disease and other vector-borne diseases by DNA-based Polymerase Chain Reaction (PCR) and serology
- C6 Peptide ELISA testing for *Borrelia burgdorferi*
- Detailed results with interpretation guide with every comprehensive report
- PhD's available for testing and result consultations
- MDL files all insurances including Medicare, Medicaid, PPOs and HMOs
- Patient friendly pricing for non-insured patients
- Test additions available up to **30 days** after collection
- No refrigeration required before or after collection
- **5-10 day turnaround time**

### **Did You Know?**

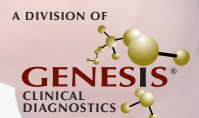
- Vector-borne diseases have more than tripled in the US in recent years
- Lyme disease accounts for 82% of all tick-borne illnesses; however, Rickettsiosis, Babesiosis, Anaplasmosis & Ehrlichiosis have also increased



A MEMBER OF GENESIS BIOTECHNOLOGY GROUP

Medical Diagnostic Laboratories  
Institute of Vector-Borne Diseases  
[www.mdlab.com](http://www.mdlab.com)

A MEMBER OF GENESIS BIOTECHNOLOGY GROUP™



IH0199 Upd.: 9/2023



# Vector-Borne Diseases

## TICK-BORNE DISEASES

### Anaplasmosis & Ehrlichiosis

- 457 *Ehrlichia muris* sub. *eaucلائrens* by Real-Time PCR
- 439 *Anaplasma phagocytophilum* IgG/IgM by IFA (serum required)
- 411 *Ehrlichia chaffensis* (HME) & *Anaplasma phagocytophilum* (HGE) by Real-Time PCR
- 456 *Ehrlichia ewingii* (HME) by Real-Time PCR

### Babesiosis

- 431 *Babesia duncani* (WA-1) by Real-Time PCR
- 410 *Babesia microti* by Real-Time PCR
- 440 *Babesia microti* IgG/IgM by IFA (serum required)

### Borreliosis - Lyme disease

- 424 *Borrelia afzelii* (Europe) by Real-Time PCR
- 441 *Borrelia afzelii* (Europe) by Western blot (IgG/IgM) (serum required)
- 305 *Borrelia burgdorferi* (United States) by Real-Time PCR
- 425 *Borrelia garinii* (Europe) by Real-Time PCR
- 442 *Borrelia garinii* (Europe) by Western blot (IgG/IgM) (serum required)
- 449 *Borrelia mayonii* (United States) by Real-Time PCR
- 427 Lyme disease IgG/IgM by ELISA (serum required)
- 417 Lyme disease C6 Peptide by ELISA (serum required)
- 313 Lyme disease by Western blot (IgG/IgM) (serum required)

### Borreliosis - Southern Tick-associated Rash Illness (STARI)

- 430 *Borrelia lonestari* by Real-Time PCR

### Borreliosis - Tick-borne Relapsing Fever

- 450 *Borrelia hermsii* by Real-Time PCR
- 443 *Borrelia miyamotoi* by Real-Time PCR
- 451 *Borrelia parkeri* by Real-Time PCR
- 445 *Borrelia turicatae* by Real-Time PCR

### Spotted Fever Group Rickettsiosis

- 448 *Rickettsia parkeri* by Real-Time PCR
- 447 *Rickettsia rickettsii* by Real-Time PCR
- 446 *Rickettsia* species (Rickettsiosis) by Real-Time PCR

### Tick-borne Viruses

- 434 Colorado Tick Fever virus by Real-Time PCR
- 436 Heartland virus (Phlebovirus) by Real-Time PCR
- 282 Powassan virus IgG/IgM by ELISA (serum required)
- 281 Tick-borne Encephalitis virus IgG/IgM by ELISA (serum required)
- 277 Bourbon Virus by Real-Time PCR

### Tularemia

- 360 *Francisella* species (*F. tularensis*, *F. holarctica*) by Real-Time PCR

## MOSQUITO-BORNE VIRUSES

- 280 Chikungunya virus IgG/IgM by ELISA (serum required)
- 270 Dengue viruses 1-4 by Real-Time PCR
- 279 Dengue virus IgG/IgM by ELISA (serum required)
- 269 Eastern Encephalitis virus by Real-Time PCR
- 283 Japanese Encephalitis virus IgG/IgM by ELISA (serum required)
- 266 LaCrosse Encephalitis virus by Real-Time PCR
- 264 St. Louis Encephalitis virus by Real-Time PCR
- 243 West Nile virus by Real-Time PCR
- 244 West Nile virus IgG/IgM by ELISA (serum required)
- 265 Western Equine Encephalitis virus by Real-Time PCR

## FLEA, FLY, LOUSE, MITE & TICK-BORNE DISEASE

- 326 *Bartonella bacilliformis* by Real-Time PCR
- 325 *Bartonella clarridgeiae* by Real-Time PCR
- 339 *Bartonella elizabethae* by Real-Time PCR
- 317 *Bartonella henselae* by Real-Time PCR
- 376 *Bartonella henselae* IgG by ELISA (serum required)
- 342 *Bartonella quintana* by Real-Time PCR
- 356 *Bartonella* species (*B. henselae*, *B. quintana*) by Real-Time PCR
- 453 *Rickettsia akari* (house mouse mite) by Real-Time PCR
- 455 *Trypanosoma cruzi* by Real-Time PCR
- 454 *Trypanosoma cruzi* (Chagas disease) IgG by ELISA (serum required)

## MICE

- 458 Hantavirus IgG/IgM by ELISA (serum required)

## DIFFERENTIAL DIAGNOSIS & COINFECTIONS

- 365 *Campylobacter jejuni* (OneSwab® Loose Stool, Rectal Swab, No Lubricant)
- 319 *Chlamydia pneumoniae* by Real-Time PCR
- 327 *Chlamydia pneumoniae* IgG/IgM by ELISA (serum required)
- 105 *Chlamydia trachomatis* by Real-Time PCR
- 207 Cytomegalovirus (CMV) by Real-Time PCR (Reflex to ganciclovir resistance by Pyrosequencing)
- 233 CMV IgG/IgM by ELISA (serum required)
- 205 Epstein-Barr virus (EBV) by Real-Time PCR
- 231 EBV-EA-D IgG/IgM by ELISA (serum required)
- 230 EBV-EBNA-1 IgG/IgM by ELISA (serum required)
- 229 EBV-VCA IgG/IgM by ELISA (serum required)
- 238 Human herpesvirus-6 (HHV-6) IgG by ELISA (serum required)
- 219 Human herpesvirus-6 (HHV-6) Variants A & B by Real-Time PCR
- 263 Human herpesvirus-7 (HHV-7) by Real-Time PCR
- 221 Human herpesvirus-8 (HHV-8) by Real-Time PCR
- 336 *Mycoplasma pneumoniae* by Real-Time PCR
- 340 *Mycoplasma pneumoniae* IgG/IgM by ELISA (serum required)
- 223 Parvovirus by Real-Time PCR
- 354 *Yersinia* species (IgG/IgA) by Western blot (serum required)



A MEMBER OF GENESIS BIOTECHNOLOGY GROUP

Medical Diagnostic Laboratories  
www.mdlab.com • 877.269.0090

A DIVISION OF

