



Bartonella Patented ePCR™ Panel for Confirmation of Chronic‡ Infection

For a confirmed patient positive rate 10x higher than conventional PCR¹

Give your patients the features and benefits of ePCR for a better outcome:

- ePCR confirms infection via BAPGM™, a patented liquid growth media[§], to culture and detect live, viable bacteria²⁻⁵
- Proprietary IFA serology to monitor treatment outcome
- True Triple Draw™ – Research shows 3 blood draws over a 7–8 day period is necessary to account for cyclical bacteremia⁶

Test Characteristics	Galaxy ePCR™ Patented Diagnostic Panel <small>Includes: BAPGM Enrichment[†], Qualitative PCR, True Triple Draw™, Proprietary IFA</small>	PCR <small>Conventional or Quantitative</small>	Conventional IFA	Conventional Plate Culture	Microscopic Staining	FISH <small>Fluorescent in situ Hybridization</small>
When to use?	CSD ⁺ or Non-CSD [‡] <i>Bartonella</i> presentations ^{3,7-12}	Included in Galaxy's ePCR platform to detect presence of non-viable bacteria ¹³	Only for acute onset of CSD symptoms [•] . Use ePCR to confirm infecting species ^{14,15}	<i>Bartonella</i> does not grow using conventional culture methods ¹⁶	To assess pathology of damage in ePCR confirmed positive tissue samples ^{17,18}	No diagnostic utility reported in peer-reviewed studies for blood samples
Confirmed positive patient rate ^{1,3,7} <small>(Chronic Bartonellosis symptoms[‡])</small>	9.2%	0.98%	Only detects exposure	N/A	N/A	N/A
Active infection confirmation ²⁻⁵	✓✓✓	✗	✗	✗	✗	✗
Sensitivity ^{1,3,7}	The New Gold Standard: 10x more sensitive than PCR	11.1% of Gold Standard	17.5% of Gold Standard	N/A	N/A	N/A
Specificity ^{1,3,7}	100%	100%	66–76%	N/A	N/A	N/A
Addresses cyclical bacteremia via True Triple Draw™ ⁶	✓✓✓	✗	✗	✗	✗	✗
Minimizes false negatives ^{1,3,6,7,19}	✓✓✓ 90% reduction in false negatives compared to PCR	✓	✗	✗	✗	✗
Eliminates false positives ^{1,3,6,7}	✓✓✓ DNA confirmation	✓	✗	✗	✗	✗
No cross reactivity or non-specific priming ^{1,3,6,7,14,15}	✓✓✓	✓	✗	N/A	N/A	✗
Chronic Bartonellosis [‡] diagnostic utility ^{3,7-12} <small>(e.g., neurologic, rheumatoid, Lyme-like symptoms)</small>	✓✓✓	✓	✗ High false negative rate for chronic infections	✗	✗	✗
Cat Scratch Disease diagnostic utility ^{14,15,19}	✓✓✓	✓	✓✓ Classic CSD ⁺ symptoms only	✗	✗	✗
Utility for monitoring treatment ⁹⁻¹¹	✓✓✓	✗	✓	✗	✗	✗

‡ Patients suffering with chronic Bartonellosis presentations, including but not limited to, neurologic deficits, Lyme-like symptoms, small vessel disease, vascular inflammation, rheumatoid arthritis, auto-immune disorders, fibromyalgia, cardiac disease, or other non-specific chronic issues

§ BAPGM is a patented growth media that increases bacterial numbers to detectable levels and is the most sensitive diagnostic modality for the documentation of *Bartonella* spp. detection that exists anywhere in the world

+ Patients with strict clinical criteria for Cat Scratch Disease (CSD), defined as acute fever and lymphadenopathy following a cat scratch

References available on request