

EurobioPlex

BARTONELLA

Simultaneous screening for
B.henselae, *B.quintana*, *B.spp*



MADE BY
EUROBIO
SCIENTIFIC
IN FRANCE

You seek to identify the origin
of endocarditis?

EurobioPlex Bartonella Real Time PCR is :



1. Delmas and All. «Quadriplex real-time PCR for the diagnosis of Bartonella spp, henselae and quintana». RICAI 2015, Poster N°532
2. NRC, Unit of Rickettsia and emerging pathogens, Pharmacological faculty, AIX-MARSEILLE II University
3. For more information, please refer to the paragraph «Procedure» of the technical sheet.

CLINICAL CONTEXT

Bartonella are Gram-negative, aerobic bacilli. The main infections in humans are due to *Bartonella henselae* (cat's claws) and *Bartonella quintana* (trench fever). *Bartonella* is responsible for endocarditis with negative blood cultures. As the consequences of this infection are significant, the use of surgery is almost certain.

The diagnosis of *Bartonella* is important due to the high risk of morbidity and mortality. *Bartonella* should be systematically investigated in patients suspected of endocarditis. There is so far no vaccine prophylaxis.

DIAGNOSIS

In the event of suspected endocarditis with negative blood culture, it should be a priority to test for *B. quintana* and *B. henselae* serology. In practice, gene sequencing is used for detection of *Bartonella* bacteria in tissue fragments, lymph nodes or pus.⁴

The use of qPCR brings quicker, sensibility, reproducibility and early detection of the presence of the *Bartonella*.

CHARACTERISTICS

Test principle ³	Detection of bartonella genome <i>henselae/ quintana/ spp</i>
Technology	Real Time PCR
Pathogens required	<i>Bartonella henselae</i> <i>Bartonella quintana</i> <i>Bartonella spp</i>
Analytical Sensitivity ⁴	12,5 copies/μL <i>Bartonella quintana</i> et <i>Bartonella henselae</i> : 5 copies/μL
Sample Type	DNA extract from Whole blood, Serum, Cardiac biopsy, Bone marrow, Lymph node biopsy and Spleen biopsy
Included controls ³	Positive, negative and internal controls
Time to result ³	≈ 1 hour

PERFORMANCE⁴

Sensitivity

Bartonella henselae : 91,1 %
Bartonella quintana / *Bartonella Spp* : 99 %

Specificity

Bartonella Spp : 95,9 %
Bartonella henselae / *Bartonella quintana* : 99 %

Reference	Description	Format
EBX-013	EurobioPlex <i>Bartonella spp / henselae / quintana</i> Real Time PCR	48 / 96 tests
EBX-017	EurobioPlex <i>Coxiella burnetii</i> Real Time PCR	

4. For more information, please refer to the paragraph «Performance analysis» of the technical sheet