

Q fever is a zoonotic disease caused by the bacteria *Coxiella burnetii*. Human infections occurs after shedding by animals (goats, sheep, cattle, etc.) The disease is observed world-wide The largest outbreak occurred in the Netherlands with an estimated 100,000 human infections.

Q-detect™ is a **whole blood** interferon-gamma (IFN- γ) release assay for Q fever measuring the specific T-cell response to *in-vitro* stimulation with antigen. The assay is a unique test based on the cellular immune response against *Coxiella burnetii*.

Why use Q-detect?

- **High sensitivity of > 94%** at 5 years after exposure to bacteria
- Supports diagnosis of Q fever and Q fever related Fatigue Syndrome
- Very relevant for **screening for exposure to Coxiella**
- Specificity of > 92%
- **Easy to implement** with existing equipment
- Validated in studies with over 1,600 volunteers in the Netherlands



Q-detect requires stimulation with heat-killed *Coxiella* within 12 hours from blood collection, followed by incubation at 37 °C for 24 hours. Read-out is performed by ELISA.

Ordering information

		Product number
Q-detect™	IFN- γ release assay for Q fever (36 samples in duplicate) Stimulation plates, ELISA plates, seals, Q- detect™ antigen Cb2009-02629, Positive control (PHA), IFN- γ standards, block solution, assay buffer, anti-IFN- γ coating antibody, anti-IFN- γ biotin conjugate, streptavidin-HRP conjugate, TMB ELISA substrate, wash buffer solutions	QDXS-0036

Please contact us for ordering and delivery in your country: sales@innatoss.com

Manufacturer: Innatoss Laboratories B.V. Kloosterstraat 9 - RE21,
5349 AB Oss, the Netherlands
t: +31 412 700507 e: support@innatoss.com i: www.innatoss.com

Contents and Storage conditions

Part	Temperature
96-well stimulation plates	Room temperature
96-well ELISA plates	Room temperature
Seals	Room temperature
Q-detect™ Antigen Cb2009-02629	-20 °C
Positive control (PHA)	-20 °C
Concentrated block solution	-20 °C
Concentrated assay buffer	-20 °C
Anti-IFN- γ coating antibody	-20 °C
Anti-IFN- γ biotine conjugate	-20 °C
IFN- γ standards	-20 °C
Streptavidine-HRP conjugate	-20 °C
TMB ELISA substrate	2 - 8 °C
Wash buffer detergent	Room temperature
Wash buffer concentrate	Room temperature

Not included but required for use

Biosafety cabinet class I for working with blood
37 °C incubator (no CO ₂ required)
Calibrated pipettes, variable volume of 1 μ l to 1000 μ l and disposable tips with filter
Calibrated multichannel pipettes, variable volume 50 μ l to 300 μ l and disposable tips
Microtiter plate shaker and washer
Absorbance reader for microtiter plates with 450 nm filter
Ultrapure water
Na ₂ CO ₃ (\geq 99.8 %) and NaHCO ₃ (\geq 99.5 %) or ready to use carbonate buffer
RPMI medium, without phenol red and glutamine (Dutch modification)
Gentamicin 10 mg/ml
Sodium pyruvate 100 mM
Glutamine 200 mM
Stop solution

Q-detect™ is CE-marked and patented (US9551717/ EP2606361/ AU2011292497)



Q-detect is an *in-vitro* diagnostic aid for the detection of exposure to *C. burnetii*. It is intended to support clinical decisions and should be part of the overall patient assessment. Q-detect should not be use as single reference for clinical decisions and does not distinguish between active and past infection.

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