

foodproof®

Brucella Detection Kit

The genus *Brucella*, a member of the *Brucellaceae* family, comprises species like *B. abortus*, *B. melitensis*, *B. suis*, and *B. canis*. These may cause brucellosis in humans and animals, also called undulant fever or Malta fever. Brucellosis is a zoonosis caused by consumption of contaminated or untreated milk, raw meat or through direct contact with infected animals like sheep, goats, dogs or pigs. Common microbiological and serological methods for the detection and identification of *Brucella* spp. are time-consuming and hazardous for the laboratory staff. Therefore, the **foodproof Brucella Detection Kit**, based on real-time PCR, was developed to fulfill the need for a rapid, sensitive and specific system for the detection of *Brucella* spp. and the identification of *Brucella abortus* and *Brucella melitensis*.

Fast: Time savings of up to 3 days compared to conventional microbiology.

Safe: Prevention of carry-over contamination using Uracil-N-Glycosylase.

Easy: Convenient handling.

Experienced: Long-time experience as custom service lab and life science product manufacturer.

Efficient: ~10³ cells/mL of enrichment cultures (sensitivity value may vary slightly depending on sample type).

Comprehensive: Packages of Sample Preparation & Detection Kits, real-time PCR instruments & diagnostic software.

Licensed: Fully licensed technology.

Best Specificity

100% Inclusivity

50 *Brucella* strains tested (e.g., *B. abortus*, *B. melitensis*, *B. suis*, *B. canis*, *B. ovis*)

Detection of *Brucella* spp. and identification of *Brucella* spp.

Identification of *Brucella abortus*, and *Brucella melitensis*.

100% Exclusivity

> 25 strains tested, including closely related organisms and microorganisms of the same habitat.

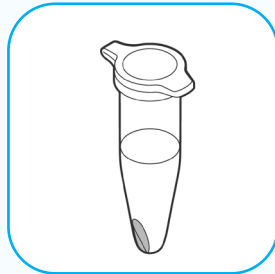
Matrices

Applicable for all relevant food matrices, such as unpasteurized milk and raw meat.

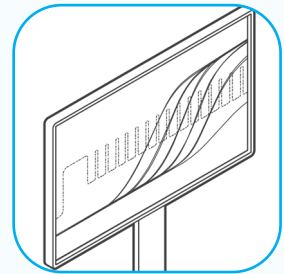
Workflow



Enrichment



DNA Extraction
approx. 20 min



Real-Time PCR
approx. 60 - 100 min

DNA Extraction Kit

foodproof StarPrep One Kit
KIT 2301 75

Tests

100

DNA Extraction

foodproof StarPrep One Kit enables the extraction of *Brucella* DNA from food sample matrices.

Real-Time PCR Detection Kit

foodproof Brucella Detection Kit
KIT 2300 40

foodproof Brucella Detection LyoKit
KIT 2301 57 (LP), KIT 2301 58 (RP)

Tests

96

48

Instrument Compatibility

Low Profile (LP):

e.g., LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

Regular Profile (RP):

e.g., Mx3005P



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