

A T C A T C G T A T C C A T C C C T A T C C A T C C C T
T C A T C C C T A T C G C T T C C A T C T G C T T C A
A T C T T C A T C C G T A T C T G C T C C A T C T G C T
C C A T T T C A T C C G T A T C
G C T T C C A T C C C T A T C G C
T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



BIOTEC CON Diagnostics

foodproof®

Brucella Detection Kit

Hydrolysis Probes

For safer food – BIOTEC CON Diagnostics – simply builds up trust!

The genus *Brucella*, 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** real-time PCR assay was developed to fulfil 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 saving of up to 3 days in comparison to conventional microbiology

Easy: Convenient handling

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

Licensed: Fully licensed technology

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

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.

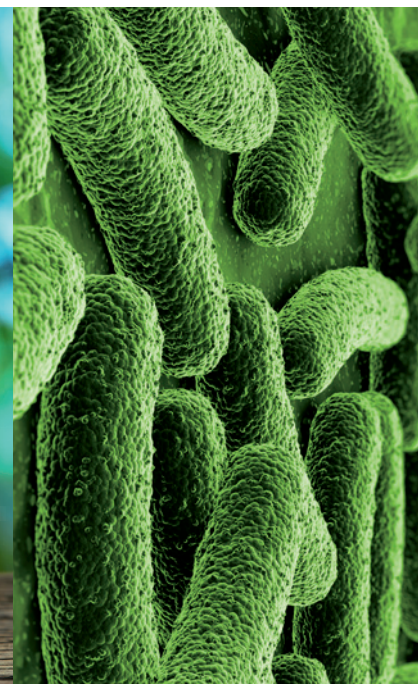
- Identification of *Brucella abortus* and *Brucella melitensis*

100% Exclusivity

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

Matrices

Applicable for all relevant matrices, like unpasteurised milk and raw meat.



A T C A T C G T A T C C A T C C C T A T C C A T C C C T
T C A T C C C T A T C G C T T C C A T C T G C T T C A
A T C T T C A T C C G T A T C T G C T C C A T C T G C T
C C A T T T C A T C C G T A T C
G C T T C C A T C C C T A T C G C
T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



BIOTECON Diagnostics

Workflow



Enrichment
Start



DNA Extraction
approx. 20 min



PCR Setup
approx. 10 min



Real-time PCR Run
60 min - 100 min

Analysis Results in < 2,5 h

Brucella Detection Kit

R 302 04 **foodproof®** Brucella Detection Kit (5'Nuclease)

Specific DNA Extraction Kit

S 400 07 **foodproof®** StarPrep One Kit - bulk purification



Storage at -15 °C to -25 °C

96 Reactions with final volume of 25 µl

Stable to expiration date on label

DNA Extraction

foodproof® StarPrep One Kit

- enable the extraction of *Brucella* DNA from food sample enrichments

Instrument Compatibility

- 5'Nuclease / TaqMan® cyclers (e.g. LightCycler, PikoReal 24, Mx3005P, CFX96, ABI 7500)

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