

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:** ~10<sup>3</sup> 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.

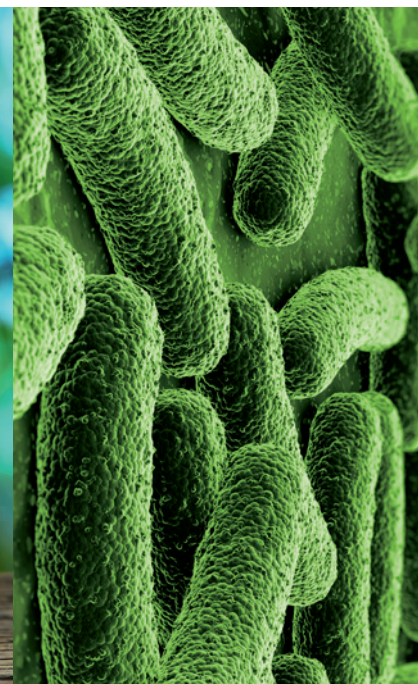
- Identification of *Brucella abortus* and *Brucella melitensis*

#### 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 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® cycler (e.g. LightCycler, PikoReal 24, Mx3005P, CFX96, ABI 7500)

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