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Diagnosics

foodproof®

Yersinia Kits

Detection of *Y. enterocolitica* & *Y. pseudotuberculosis*



For safer food – BIOTECON Diagnostics – simply builds up trust!

Yersinia is a genus of Gram-negative bacillus-shaped bacteria belonging to the family of *Enterobacteriaceae*. *Yersinia enterocolitica* and *Yersinia pseudotuberculosis* infections cause the disease yersiniosis, which is an animal-borne disease occurring in humans and some mammals. Yersiniosis is, after infections by *Salmonella* and *Campylobacter*, the most common bacterial gastrointestinal disease. The biggest risk factor is the consumption of raw pig products, like ground pork or minced meat.

With the **foodproof®** *Yersinia enterocolitica* plus *Yersinia pseudotuberculosis* Detection Kit the two pathogenic species can be detected and identified within a short time. The *Yersinia* Kit is based on real-time PCR technology, which is well-established in the food industry as a highly sensitive and specific detection method.

Fast: 26 h to result with approx. 45 min of hands-on time

Safe: Prevention of false-negative results by internal control and prevention of carry-over contamination using Uracil-N-Glycosylase

Sensitive: Detects 10^3 - 10^4 cfu/enriched food sample

Easy: Convenient, complete solution, including DNA extraction and real-time PCR analysis

Experienced: Manufacturer of PCR-based rapid tests for the food industry since 1998 with an ISO 17025 accredited service lab

Licensed: Fully licensed technology

Specificity

- Highest Inclusivity and Exclusivity
- In- and Exclusivity according to ISO 18867

Matrices

Relevant food matrices tested, including minced meat, other pork meat, vegetables

Identification of Species

In two channels:

- FAM: *Y. enterocolitica*
- HEX: *Y. pseudotuberculosis*

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



Start
Enrichment



DNA Extraction
approx. 30 min



PCR Setup
approx. 10 min



Real-time PCR Run
60 - 100 min

Analysis Results in 26 h

Yersinia Detection Kit

F 302 53 **foodproof®** *Yersinia enterocolitica* plus *Yersinia pseudotuberculosis*
Detection Kit

Specific DNA Extraction Kit

S 400 07 **foodproof®** Star Prep One Kit - bulk purification

DNA Extraction

foodproof® StarPrep One Kit
enables the fast extraction of
Yersinia DNA from food matrix
enrichments

Instrument Compatibility

- LightCycler 480 II, LC 96
Mx3005P, AriaMx, CFX96,
ABI 7500

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Storage at -15 °C to -25 °C
64 Reactions with a final volume of 25 µl

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