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



BIOTEC CON **Diagnostics**

foodproof®

Alicyclobacillus Detection Kit

plus Identification of *A. acidoterrestris*

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

The genus *Alicyclobacillus* consists of Gram-positive, acidophilic and thermophilic, spore-forming bacteria typically found in soils. *Alicyclobacillus* spores, often brought into food manufacturing facilities on contaminated fruit, are able to survive typical pasteurization procedures. The non-pathogenic bacteria can cause disinfectant-like off-flavors (guaiacol, halophenols) in the final product, especially affecting fruit juices, concentrates, and preparations as well as tomato-based products.

Alicyclobacillus acidoterrestris is the most common contaminating species of this genus.

The **foodproof®** *Alicyclobacillus* Detection Kit is based on real-time PCR technology, which is well-established in the food industry. The kit enables the *Alicyclobacillus* genus detection and *A. acidoterrestris* identification in one single assay.

Fast: Approx. 48 h to result with < 40 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: Validated to detect 10²-10³ cfu/ml of enrichment culture

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

Best Specificity

100% Inclusivity

- 38 *Alicyclobacillus* strains of 14 *Alicyclobacillus* species tested (including *A. acidoterrestris*)

100% Exclusivity

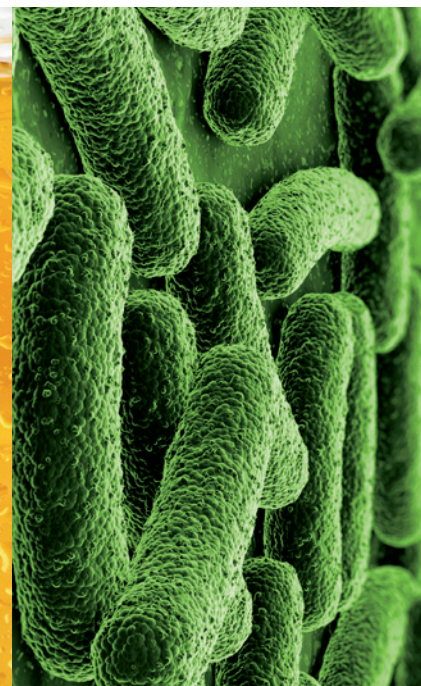
- 40 strains tested including closely related organisms and microorganisms of the same habitat

Matrices

All relevant food matrices tested, e.g. fruit-juice, fruits, tomato paste, tomato juice, fruit-based spread

Identification of Species

Alicyclobacillus acidoterrestris identification in addition to genus detection in one single assay



Workflow



Alicyclobacillus Detection Kit

R 302 28 **foodproof® Alicyclobacillus** Detection Kit (5' Nuclease)
including *A. acidoterrestris* identification

Specific DNA Extraction Kits

- S 400 02 **foodproof® ShortPrep® II Kit** - rapid purification
- S 400 05 **foodproof® Sample Preparation Kit II** - high quality column purification
- S 400 08 **foodproof® StarPrep Two Kit** - bulk purification

DNA Extraction

- foodproof® ShortPrep II Kit**
- foodproof® StarPrep Two Kit**

- enables the fast and easy extraction of *Alicyclobacillus* DNA from food and beverage matrices

Instrument Compatibility

- LightCycler 96, LightCycler 480 II
- 5'Nuclease / TaqMan® cyclers (e.g. PikoReal 24, CFX96, AriaMx, ABI 7500)

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

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