Identification of Species

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

**Matrices**

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

**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

**Identification of Species**

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

**For safer food – BIOTECON 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 $10^2$-$10^3$ 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
Workflow

**Workflow**

- **Start** Enrichment
- **DNA Extraction** approx. 30 min
- **PCR Setup** approx. 10 min
- **Real-time PCR Run** approx. 90 min

**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® cycler
  - (e.g. PikoReal 24, CFX96, AriaMx, ABI 7500)

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