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BIOTECON Diagnostics

foodproof®

Alicyclobacillus Detection Kit

plus Identification of *A. acidoterrestris*

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 the 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

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



