



foodproof[®] Alicyclobacillus Detection LyoKit

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 standard 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, including tomato-based products. *Alicyclobacillus acidoterrestris* is the most common contaminating species of this genus.

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

Sensitive: High sensitivity, validated procedure according to the International Fruit and Vegetable Juice Association (IFU) method no. 12 (BAT medium).

Safe: Prevention of false-negative results by internal control and prevention of carry-over contamination using Uracil-N-Glycosylase. **Fast:** 4 hour time-to-results with direct sample protocol, including less than 40 min hands-on time. Presence/absence testing after 2 to 3 days enrichment, saving 3 to 5 days compared to IFU Method 12 guidelines.

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

Best Specificity

100% Inclusivity

38 *Alicyclobacillus* strains of 15 *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. Easy and convenient direct sample protocol for juices and concentrates or presence/absence testing after enrichment.



Workflow



Direct Sample or Enrichment 2 to 3 days in BAT or 402 medium



DNA Extraction approx. 30 min



Real-Time PCR approx. 90 min

DNA Extraction Kits

foodproof StarPrep Two Kit KIT 2301 77

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DNA Extraction

foodproof StarPrep Two Kit Enables the fast and easy extraction of Alicyclobacillus DNA from food and beverage matrices.

Real-Time PCR Kits

foodproof Alicyclobacillus Detection LyoKit (including A. acidoterrestris identification) KIT 2301 51 (LP), KIT 2301 52 (RP), KIT 2301 53 (DP)



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Instrument Compatibility

Different Profile (DP): e.g., Dualo 32® R²

Low Profile (LP): e.g., LightCycler® 480,

LightCycler[®] 96, AriaMx, Bio-Rad CFX96[™], Applied Biosystems[™] 7500 Fast, QuantStudio™

Regular Profile (RP): e.g., Mx3005P

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