

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



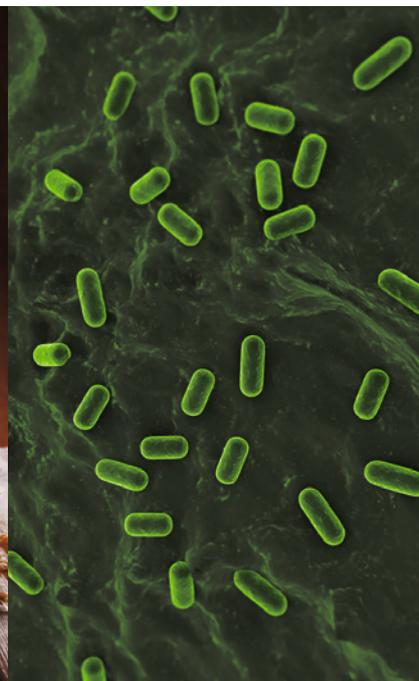
**BIOTECON** Diagnostics

**foodproof®**



**Beer Screening 2 LyoKit**

**5'Nuclease**



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

During production, contamination of beer can be recognized by unwanted turbidity due to microorganisms, pH changes, undesired changes to the flavor and protein flocculation. Often, the appearance of beer-spoilage bacteria results in the loss of whole batches of beer. With our **foodproof® Beer Screening 2 LyoKit** you can detect > 30 species and subspecies of the most troublesome spoilage bacteria can be detected in a single rapid test. In addition, the genera *Lactobacillus* and *Pediococcus* can be differentiated from the genera *Megasphaera* and *Pectinatus* in two different fluorescence channels. A third fluorescence channel allows you to screen for the hop tolerance genes *horA* and *horC* that are correlated with the ability for lactic acid bacteria to grow in beer.

The **foodproof® Beer Screening 2 LyoKit** is based on real-time PCR technology, which is well-established in the brewing and beverage industry as a highly sensitive and specific detection method.

**Fast:** 48-72 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.

**Affordable:** Screening of bacterial beer spoilers for an affordable price.

**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.

**Sensitive:** Validated to detect 1-10 cfu/ml.

**Wide Detection Spectrum**

**Detection of > 30 Beer Spoilage Bacteria**

**Channel 1**

- *Lactobacillus*
- *Pediococcus*

**Channel 2**

- *Pectinatus*
- *Megasphaera*

**Channel 3**

- Screening for hop tolerance genes *horA* & *horC*

**Matrices**

Beer, yeast samples and environmental samples

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 - 110 min

Analysis Results in 2.5 h

### Beer Screening 2 LyoKit

R 602 06 **foodproof®** Beer Screening 2 LyoKit (5'Nuclease)

### Matrix-Specific DNA Extraction Kits

S 400 03 **foodproof®** ShortPrep® III Kit - rapid extraction

S 400 08 **foodproof®** StarPrep Two Kit - bulk extraction

S 400 18 **foodproof®** StarPrep Three Kit - bulk extraction

### Several DNA Extraction Protocols (approx. 30 min)

- enable the extraction of DNA from spoilage organisms

### Instrument Compatibility

- LC 480, LC 96, Dualo 32, PikoReal 24, AriaMx and others\*



**Storage**  
at 2 °C to 8 °C

**96 Reactions**  
with a final volume of 25 µl

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\*also validated on ABI 7500 Fast and BioRad CFX96  
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