

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



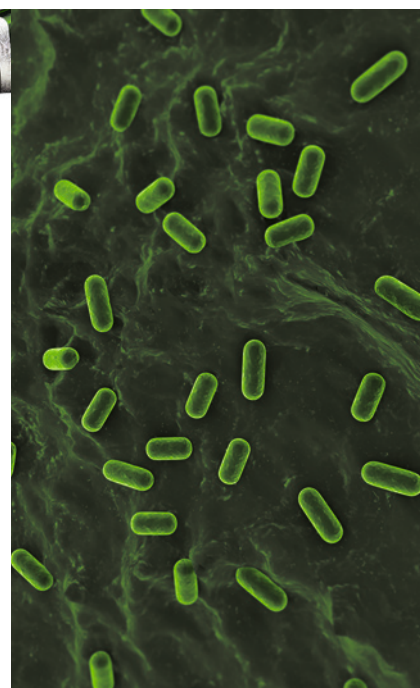
**BIOTECON** Diagnostics

**foodproof®**



**Beer Screening Kit**

**Hybridization Probes**



**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 of the flavor and protein flocculation. Often, the appearance of beer-spoilage bacteria results in a loss of whole batches of beer. By using the ready-to-use **foodproof® Beer Screening Kit**, 31 species and subspecies of the most troublesome spoilage bacteria can be detected in a single rapid test.

The **foodproof® Beer Screening Kit** 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.

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

**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.

**Wide Detection Spectrum**

**Detection of 31 Relevant Beer Spoilage Organisms of the Genera:**

- *Lactobacillus*
- *Pediococcus*
- *Pectinatus*
- *Megasphaera*

**Identification of Species**

- *Lactobacillus brevis*
- *Lactobacillus lindneri*
- *Lactobacillus acetotolerans*
- *Pediococcus inopinatus*
- *Pediococcus damnosus*
- *Megasphaera cerevisiae*

**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



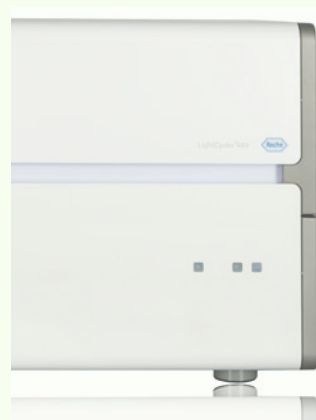
**Start**  
Enrichment



**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 Kit

R 310 02 **foodproof®** Beer Screening Kit (LC 1.x, 2.0, 480)

## Matrix-Specific DNA Extraction Kits

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

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

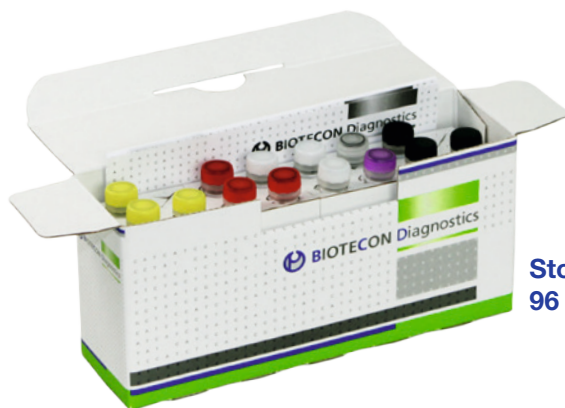
S 400 18 **foodproof®** StarPrep Three Kit - bulk extraction

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

- enable the extraction of DNA from spoilage organisms

## Instrument Compatibility

- LightCycler® 1.x, 2.0 and 480, Duo 32



**Storage** at -15 °C to -25 °C  
**96 Reactions** with a final volume of 20 µl

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