

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 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 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 LyoKit**, 31 species and subspecies of the most troublesome spoilage bacteria can be detected in a single rapid test.

The **foodproof® Beer Screening 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 31 Relevant Beer Spoilage Organisms of the Genera:

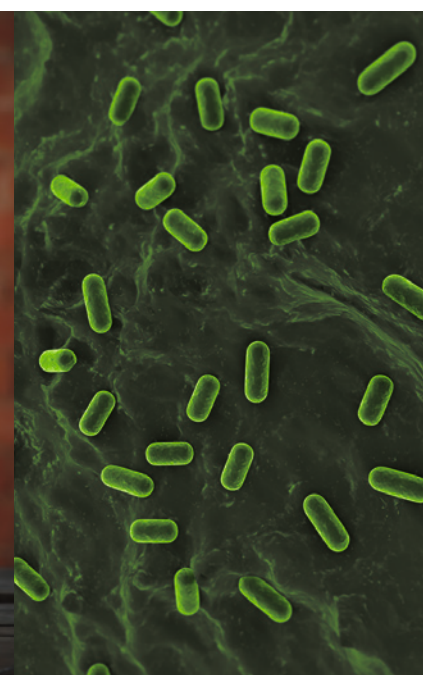
- *Lactobacillus*
- *Pediococcus*
- *Pectinatus*
- *Megasphaera*

Identification of

- *Lactobacillus brevis*
- Hop tolerance genes

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



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Workflow



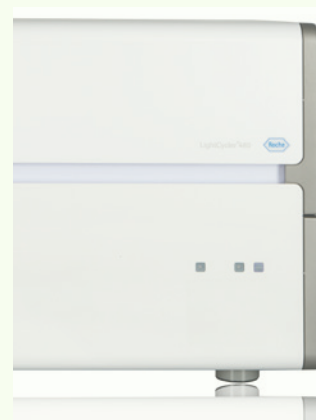
Start
Enrichment



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 LyoKit

R 602 02 **foodproof®** Beer Screening 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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