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
Instrument Compatibility

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

BIOTECON Diagnostics GmbH
Hermannswerder 17
14473 Potsdam
Germany
Tel.: +49 (0)331-2300-200
Fax: +49 (0)331-2300-299
bcd@bc-diagnostics.com
www.bc-diagnostics.com

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*

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

Storage
at 2 °C to 8 °C

96 Reactions
with a final volume of 25 µl

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

Several DNA Extraction Protocols (approx. 30 min)
- enable the extraction of DNA from spoilage organisms