

foodproof®

Beer Screening Kits

During production, contamination of beer can be recognized by unwanted turbidity due to microorganisms, pH changes, undesired flavor changes 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 Kits and LyoKits, the most troublesome spoilage bacteria of the genera *Lactobacillus*, *Pediococcus*, *Megasphaera* and *Pectinatus* can be detected and identified at an early stage in the production process, and appropriate measures can be initiated to minimize product loss. The assays are based on real-time PCR, which is well-established in the brewing and beverage industry as a highly sensitive and specific detection method.

The **food**proof Beer Screening 1 and 2 LyoKit detects more than 30 beer spoilage bacteria. Additionally, the kits can detect the hop tolerance genes *horA* and *horC* that are correlated with the ability for lactic acid bacteria to grow in beer. Beer Screening 1 is designed to identify *Lactobacillus brevis*. Beer Screening 2 differentiates between the lactic acid bacteria, *Lactobacillus* and *Pediococcus*, and the obligate anaerobic bacteria, *Pectinatus* and *Megasphaera*, in two different channels.

Using the **food**proof Beer Screening Kit, 31 of the most troublesome spoilage bacteria can be detected in a single rapid test. The most important representatives of these genera, such as *Lactobacillus brevis*, *Lactobacillus lindneri*, *Pediococcus damnosus*, *Pediococcus inopinatus* and *Megasphaera cerevisiae* can also be identified by melting curve analysis in the same test.

Safe: Prevention of false-negative results with internal control and prevention of carry-over contamination using Uracil-N-Glycosylase.

Cost-Saving: Screening of multiple bacterial beer spoilers for an affordable price.

Fast: 48-72 h to results with < 40 min of hands-on time.

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

Sensitive: Validated to detect 1-10 cfu/mL.

Wide Detection Spectrum

Detection of more than 30 relevant Beer Spoilage Organisms of the Genera:

Lactobacillus Pediococcus Pectinatus Megasphaera

Identification of

Lactobacillus brevis and other important beer spoiling bacteria Hop tolerance genes horA and horC

Matrices

Beer, yeast samples, pitching yeast, production samples and environmental samples.



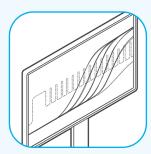
Workflow











Enrichment

DNA Extraction Duration depending on protocol and number of samples

Real-Time PCR 60 - 110 min

DNA	Extraction	Kits

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foodproof StarPrep® Two Kit (high sensitivity) 192 (42 ml) KIT 2301 77

foodproof StarPrep Three Kit (high convenience) 120 - 360 (21 ml) KIT 2301 87

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Fast & Convenient

mix reduces hands-on time and minimizes contamination risks.

Easy Storage & Safe Transportation

Real-Time PCR Kits

foodproof Beer Screening 1 LyoKit

Beer-spoilage bacteria, Lactobacillus brevis, hop-tolerance related genes KIT 2300 71 (LP), KIT 2300 72 (RP), KIT 2300 73 (DP)

foodproof Beer Screening 2 LyoKit

Beer-spoiling Lactobacillus and Pediococcus, beer-spoiling anaerobic Pectinatus and Megasphaera, hop-tolerance related genes KIT 2300 74 (LP), KIT 2300 75 (RP), KIT 2300 76 (DP)

foodproof Beer Screening Kit (Hybridization Probes) Beer-spoilage bacteria, additional identification by melting curve KIT 2300 66

Tests

Tests

96

96

96

Lyophilized, prefilled reaction

Ships at room temperature, store at 2 °C to 8 °C.

Instrument Compatibility

Different Profile (DP):

e.g., Dualo 32®

Low Profile (LP):

e.g., LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

Regular Profile (RP):

e.g., Mx3005P

Other cyclers on request.



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