

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 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®

Dekkera Quantification Kit

Hydrolysis Probes

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

Dekkera is the teleomorph of the genus *Brettanomyces* and an ascospore forming yeast genus which comprises currently 5 species. The species *Dekkera anomala* and *Dekkera bruxellensis* are the most important in terms of spoilage of various kinds of alcoholic and non-alcoholic beverages, e. g. beer, wine, soft drinks and carbonated beverage. Spoilage by these species characteristically results in the formation of dense clouds of yeast cells, thick sediments, surface films and in wine as “Brett” described phenolic off-flavour. Conventional microbiological methods for the detection, quantification and identification of *Dekkera* are very time-consuming, taking up to 2 weeks to perform. Using real-time PCR, a quantification can be done in less than 3 hours.

The **foodproof® Dekkera Quantification Kit** is based on real-time PCR technology which is well-established as a rapid, highly sensitive and specific detection method.

Fast: Time saving in comparison to conventional microbiology

Comprehensive: Packages of sample preparation & detection kits, real-time PCR instruments & diagnostic software

Safe: Prevention of carry-over contamination by using Uracil-N-Glycosylase

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

Inclusivity

High safety for the customer

- *Dekkera* strains successfully tested

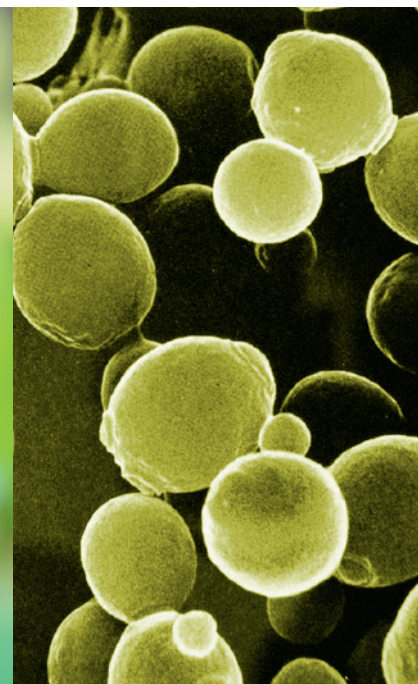
Exclusivity

72 strains tested

- Closely related organisms
- Microorganisms of the same environmental habitat

Sensitivity

10² cells/ml depending on sample type



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



DNA Extraction
30 - 50 min



PCR Setup
approx. 15 min



Real-time PCR Run
approx. 100 min

Analysis Results in approx. 2.5 h

Dekkera Quantification Kit

R 302 08 **foodproof®** Dekkera Quantification Kit

DNA Extraction Kit

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

S 400 09 **foodproof®** StarPrep Four Kit - bulk purification



Storage at -15 °C to -25 °C

96 Reactions with a final volume of 25 µl

Detection

- *Dekkera bruxellensis*
- *Dekkera anomala*

Instrument Compatibility

- LightCycler 480 II
- 5' Nuclease / TaqMan®
cycler (e.g. PikoReal 24,
Mx3005P, CFX96, ABI 7500)

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