

VIT® Beer Screening

Test kit for fast identification of all beer-spoiling bacteria belonging to the genera *Lactobacillus* and *Pediococcus*



Fast and reliable identification of beer-spoiling organisms

Unwanted growth of beer-spoiling lactic acid bacteria can cause clou-
ding, color changes and also massive changes in a product's odor and
taste. The test kit **VIT® Bier Screening** allows you to unambiguously
identify individual beer-spoiling lactic acid bacteria in beer and mixed
beer beverages. Finished products as well as samples from all stages of
the brewing process, including the yeast tank, can be analyzed.

Key points at a glance

Sample types	▶ beer and mixed beer beverages, liquid enriched samples, isolates, biofilms, hygiene samples
Technology	▶ VIT® gene probe technology
Evaluation	▶ via VIT®-adapted fluorescence microscope
Type of analysis	▶ qualitative analysis
Scope of delivery	▶ analysis reagents, product manual
Package size	▶ 25 analyses
Item no.	▶ 01210033

Identified beer spoilers

- ▶ *Lactobacillus acetotolerans*
- ▶ *Lactobacillus backi*
- ▶ *Lactobacillus brevis* / *brevisimilis*
- ▶ *Lactobacillus (para-)buchneri*
- ▶ *Lactobacillus (para-)casei*
- ▶ *Lactobacillus (para-)collinoides*
- ▶ *Lactobacillus coryniformis*
- ▶ *Lactobacillus lindneri*
- ▶ *Lactobacillus paucivorans*
- ▶ *Lactobacillus perolens* / *harbinensis*
- ▶ *Lactobacillus plantarum*
- ▶ *Lactobacillus rossiae*
- ▶ *Pediococcus clausenii*
- ▶ *Pediococcus damnosus*
- ▶ *Pediococcus inopinatus*

Your advantages

- + exact identification of all relevant beer-spoiling bacteria belonging to the genera *Lactobacillus* und *Pediococcus*
- + only living bacteria are identified
- + short time-to-result
- + maximum specificity
- + identification is based on the reliable VIT® gene probe technology

>> **fast and specific**

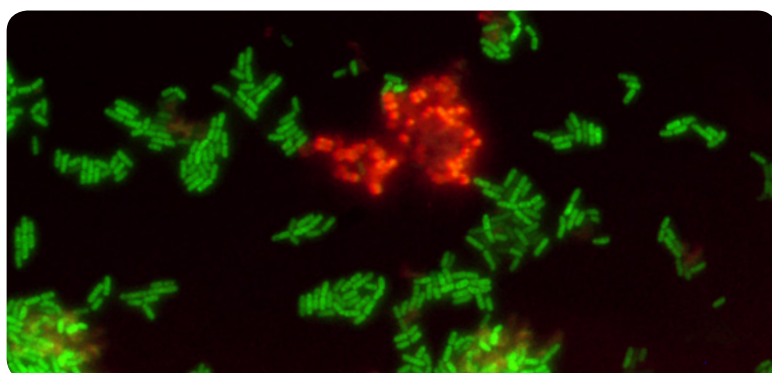
15 BEER SPOILERS
IDENTIFIED SPECIFICALLY
IN JUST ONE ANALYSIS RUN

VIT® Beer Screening

Evaluation with the VIT® fluorescence microscope

The test kit **VIT® Bier Screening** tags individual beer-spoiling lactic acid bacteria with specific gene probes, which allows for their identification. After a short enrichment (24-48 h), the sample is applied onto fields 1-7 of the included microscope slide. Next, every field is treated with a defined mix of VIT® gene probes. Depending on which microorganism or microorganisms are present in the sample, they will start to shine in those fields that have been treated with the respective specific gene probes. Evaluation is performed with a VIT®-adapted microscope and takes a maximum of 3 minutes.

Exemplary evaluation (Field 6 is positive):



Fluorescence microscopy after analysis with VIT® Bier Screening: *Lb. lindneri* shines green, *P. damnosus* shines red.

Das VIT® System



The VIT® Bier Screening test kit is part of the VIT® System.

For over 20 years, vermicon AG has been active in research and development in the field of microorganism detection and thus can provide a portfolio that combines the latest scientific findings with practical relevance and uncompromising user-friendliness and results in powerful solutions.

What can we do for you?
We are looking forward to you request.

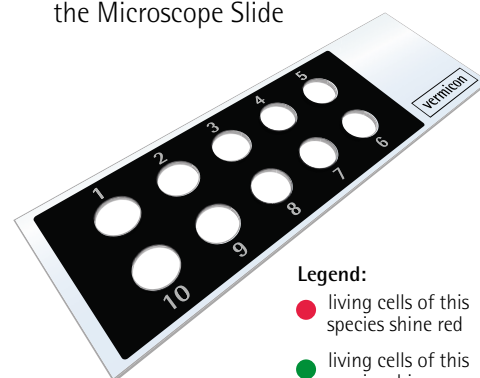
vermicon AG
Emmy-Noether-Str. 2
80992 Munich
Germany

ph: +49 (0)89 15 88 20
f: +49 (0)89 15 88 21 00

info@vermicon.com
www.vermicon.com

Bacteria Identified

► Configuration Key for the Microscope Slide



Legend:

- living cells of this species shine red
- living cells of this species shine green

- 1 Positive control
- 2 *Lb. (para-)collinoides* ● / *Lb. plantarum* ●
- 3 *Lb. rossiae* ● / *Lb. coryniformis* ●
- 4 *Lb. (para-)buchneri* ● / *Lb. perolens* ● / *Lb. harbinensis* ●
- 5 *Lb. paucivorans* ● / *Pediococcus claussenii* ● / *Lb. backi* ●
- 6 *Lb. brevis* / *brevisimilis* ● / *Pediococcus damnosus* ● / *Lb. lindneri* ● / *Pediococcus inopinatus* ●
- 7 *Lb. acetotolerans* ● / *Lb. (para-)casei* ●

Further test kits

- VIT® BEER MEGASPHAERA/PECTINATUS
- VIT® BEER PLUS L. BREVIS
- VIT® LEUCONOSTOC/ LACTOCOCCUS LACTIS



We make bacteria shine