

PIKA FASTORANGE® B TUBES

Incubation tubes for the detection of beer spoiling microorganisms

Cat. No. 2036-10

| Description | Amount | Storage |
|---|-----------------|--------------------------------|
| Incubation tubes for the detection of beer spoiling bacteria and Dekkera (Brettanomyces) yeast. | 48 x 5 mL tubes | Store dark at room temperature |

Warning! Read the manual and the Safety Data Sheets before starting the analysis. Safety Data Sheets are available in the download area from www.pika-weihenstephan.com. All handling steps should be performed under sterile conditions. Wear appropriate protective clothing

For *in vitro* use only.

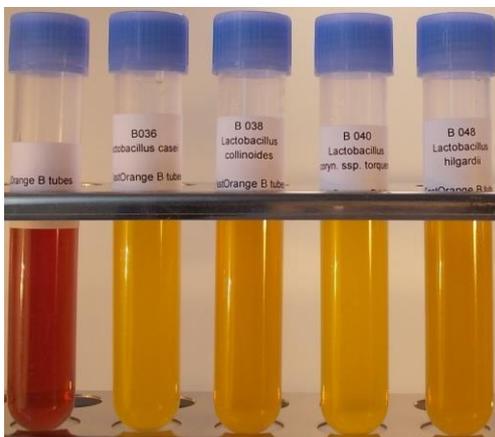
Product description

PIKA FastOrange® B Tubes are incubation tubes prefilled with culture medium. They are easy to use and directly applicable at the sampling point.

PIKA FastOrange® B Bouillon is a culture medium developed to detect microbial contamination during the brewing process and in brewery products.

Acid producing beer spoiling bacteria as lactic acid bacteria and Pediococci are easily detected by a color change of the culture medium from violet to yellow.

In case no other viable microorganisms are present in the sample, also Dekkera (Brettanomyces) yeasts may be detected. For the specific detection of Brettanomyces yeasts we recommend FastOrange® BRETT Tubes (Cat. No. 2037-10).



Detectable microorganisms

| Microorganism | Growth conditions |
|--|-----------------------|
| Lactic acid bacteria (Lactobacillaceae) - Lactobacillus sp. - Pediococcus sp. | aerobic and anaerobic |
| Acetic acid bacteria (Acetobacteriaceae) - Acetobacter sp. - Gluconobacter sp. | aerobic |
| Gram negative beer spoiling bacteria, including - Pectinatus sp. - Megasphaera sp. | anaerobic |
| Beer spoiling yeast, including - Dekkera sp. (Brettanomyces) | aerobic and anaerobic |

Growth of brewer's yeast and most other yeasts is suppressed.

Guidelines for use

- Under sterile conditions, pour liquid directly into the tube with medium and mix.
- 3-8 mL liquid sample volume is recommended
- Incubate tubes at $25 \pm 2^\circ\text{C}$ for 2-7 days.

Important! For the detection of anaerobic microorganisms, follow one of the following recommendations

- Fill the tube up to the brim and then close it
- Alternatively, fix the cap slightly on the tube to allow gas exchange and then incubate tube in a suitable anaerobic vessel.

Results of visual evaluation

| Target microorganism | Samples have to be regarded as positive if: |
|--|---|
| Acid producing bacteria including beer spoiling bacteria | color change: violet-brown to yellow |
| Other microorganisms including indicator- and accompanying flora | turbidity and potential sediment formation |

Growth of beer spoiling microorganisms is indicated by turbidity together with color change, and often additionally by sediment formation.

We recommend

- Microscopic examination and/or PCR analysis to verify the presence of beer spoiling bacteria in positive enrichments.
- Serial enrichment if an immediate color change occurs after the sample is mixed with broth.

| Serial enrichment | Method |
|-------------------|--|
| Second enrichment | 1. After 3 days of enrichment, transfer half the volume of the enriched sample into a fresh Fast Orange® B Tube 2. Incubate at $25 \pm 2^\circ\text{C}$ for 3-5 more days |

General information

Store the product in the dark at room temperature (max. 25°C). Cooling below 25°C is NOT necessary.

Due to manufacturing, slightly differences in color of culture medium may occur within lots. This is NOT influencing product quality.

Best before date for unopened product is given on the outer label. After opening we cannot guarantee for shelf life.

The product is not suitable for human or animal consumption. It must not be used for the direct propagation of microorganisms which later are used for food production or might get into contact with food.

FastOrange® B Products

| | | |
|----------------------|---------------------------|------------------|
| B Bouillon | (12 x 240 mL) | Art.-Nr. 2036-1 |
| B Agar | (12 x 170 mL) | Art.-Nr. 2036-2 |
| B Ready to Use Tubes | (48 x 5 mL) with 48 Swabs | Art.-Nr. 2036-3 |
| B Tubes | (48 x 5 mL) | Art.-Nr. 2036-10 |
| B Enrichment Bottles | (15 x 50 mL) | Art.-Nr. 2036-11 |



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Notes: The relevant antibiotics/fungicides contained in the medium fall short of critical values that require monitoring or declaration according to regulation (EG) 1907/2006 (REACH). When properly applied, the medium may be disposed of through the normal sewage system.
It is strongly recommended to inactivate the live microorganisms in any enriched sample by heating to 121°C/250°F for 20 min (autoclave) to exclude a release of live microorganisms. Although this information was collected thoroughly, we cannot guarantee that any of the content is incomplete or incorrect. We do not take over any warranty for consequences which are resulting from improper handling or incorrect use of this product.
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