

PIKA FASTORANGE® BRETT TUBES 24-PACK

Incubation tubes for the detection of Dekkera sp. (Brettanomyces)

Cat. No. 2037-15

Description	Amount	Storage
Incubation tubes for the detection of Dekkera (Brettanomyces) yeast.	24 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® BRETT Tubes are incubation tubes prefilled with culture medium. They are easy to use and directly applicable at the sampling point.

PIKA FastOrange® BRETT is a culture medium developed for enrichment of samples from breweries and wineries. Dekkera (Brettanomyces) yeasts are easily detected by a color change of the culture medium from violet to yellow. Additionally, turbidity and often sediment formation is observed.

For general detection of yeasts and molds, we recommend FastOrange® Yeast Bouillon (Cat. No. 2038-1).

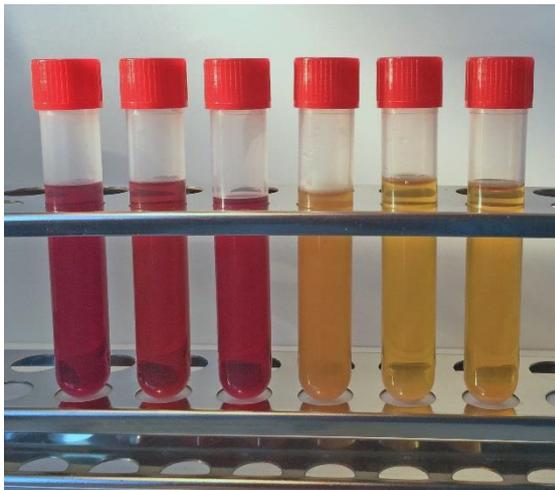


Fig. 1: examples of three negative samples on the left, three positive samples on the right.

Detectable microorganisms

Microorganism	Growth conditions
Dekkera (Brettanomyces) Yeasts	aerobic and anaerobic
Other cycloheximide tolerant yeasts may grow in FastOrange® BRETT, too, but usually these do not always produce a color change of medium to yellow.	Aerobic and anaerobic

Growth of brewer's yeast and winery yeast as well as of most other yeasts is suppressed. Growth of rare Chloramphenicol resistant bacteria may appear.

Guidelines for use

The following procedure is recommended:

- Under sterile conditions, pour 3-8 mL liquid sample directly into the tube with medium, close it and mix.
- NOTICE: If lower broth concentrations than 40% are used, a decreased visibility of color change may result. Moreover, the effect of inhibitors in the enrichment might be reduced, allowing random bacteria and yeasts to grow. Their replication could mask growth of Dekkera (Brettanomyces).
- Incubate enrichment at 25±2°C for the following period:

Analysis method	Incubation time
PCR	4-7 days
Visual evaluation	5-10 days

As Dekkera yeasts often show considerably long periods until they start their reproduction, enrichment times even longer than given in this description may be necessary.

Results of visual evaluation

Sample type	Samples have to be regarded as positive if:
All samples	<ol style="list-style-type: none"> Color change from violet-brown to yellow Increasing turbidity/ sediment Especially sediment shows yellow color
Acetic samples	<ol style="list-style-type: none"> Color might change immediately or within short time (2-3 hours) to yellow due to acid input from sample itself – this is NOT a sign of positive growth! Turbidity / sediment formation after 1-10 days of incubation



The picture above shows the difference between a color change deriving from acid input (two samples on the left) and a color change deriving from growth of Dekkera (Brettanomyces) yeasts (two samples on the right). A positive sample is indicated by turbidity / sediment formation, which is absent in the left two samples.

We recommend

- Microscopic examination to verify the presence of Dekkera (Brettanomyces) in positive enrichments
- PCR analysis for the detection and identification of Dekkera (Brettanomyces) species. Several PCR Detection kits are available (ref. to table on the right)
- Analysis of colonies can be achieved by further enrichment on pour plates or by streaking out an aliquot on FastOrange® BRETT Agar

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® BRETT Products

BRETT Bouillon	(12 x 240 mL)	SKU 2037-1
BRETT Agar	(12 x 170 mL)	SKU 2037-2
BRETT Tubes 48-pack	(48 x 5 mL)	SKU 2037-10
BRETT Enrichment Bottles	(15 x 40 mL)	SKU 2037-11
BRETT Tubes 24-pack	(48 x 5 mL)	SKU 2037-15

PCR Detection Kits Y

Different PCR Detection kits for Screening and identification of Dekkera (Brettanomyces) species are available. Depending on the real time PCR instrument, we offer different product lines containing different PCR tubes:

4e® Detection Kit	100 µL, clear, low profile
TM Detection Kit	200 µL, frosted, skirted

Product line	Product name	SKU
4e®Detection Kit	Dekkera (Brettanomyces) sp. Screening	2402-20
4e®Detection Kit	Dekkera (Brettanomyces) bruxellensis	2402-54
4e®Detection Kit	Dekkera (Brettanomyces) anomala	2402-55
4e®Detection Kit	Dekkera (Brettanomyces) naardenensis	2402-56



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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. Additionally, always comply with the applicable laws, regulations and directives of your country. PIKA Weihenstephan® and FastOrange® are registered trademarks in Germany and other countries.