

PIKA FASTORANGE® BRETT BOUILLON

Culture medium for the detection of Dekkera sp. (Brettanomyces)

Cat. No. 2037-1

Description	Amount	Storage
Culture medium for the detection of Dekkera (Brettanomyces) yeasts.	12 x 240 mL	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 Bouillon 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 a general detection of yeasts and molds we recommend FastOrange® Yeast Bouillon (Cat. No. 2038-1).



Detectable microorganisms

Microorganism	Growth conditions
Dekkera (Brettanomyces) Yeasts	aerobic and anaerobic
Other cycloheximide tolerant yeasts may grow in FastOrange® BRETT Bouillon, 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.

Guidelines for use

Depending on the sample type, the following procedures are recommended:

A. Clear samples

(e.g. beer, water, filtered samples)

- For optimal color change, add an equal volume of FastOrange® BRETT Bouillon to sample and mix. The final concentration of the medium is then 50%. The medium has NOT to be accurately measured, it is sufficient to pour and visually judge the volume.

For example, mix app. 50mL of sample with app. 50mL of broth.

- NOTICE: If lower broth concentrations than 40% are used, a decreased visibility of color change may result. Besides, the effect of inhibitors in the enrichment might be reduced so besides the target microorganisms, other yeasts as well as bacteria might grow, too. Their replication would cover growth of Dekkera species so Dekkera even could be not visible.
- Incubate samples with broth at $25 \pm 2^\circ\text{C}$ for the following period:

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

B. Yeast containing samples (e.g. fermenter sample or turbid sample)

- For optimal color change, equal volumes of Fast Orange BRETT Bouillon and sample are mixed as described for Clear samples (ref. above).

Notice: We strictly do NOT recommend using less than 50% final broth concentration, otherwise growth of non-Dekkera yeast will not be sufficiently inhibited (ref. above Clear samples, 2.).

- Incubate samples with broth at $25 \pm 2^\circ\text{C}$ for the following period:

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

C. Swab samples and membrane filters

1. Put the swab or membrane filter into a sterile vessel, and add sufficient FastOrange® BRETTE Bouillon to fully cover the sample.
3. Incubate enriched sample with broth at 25 ± 2°C for the following period:

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

Results of visual evaluation

Sample type	Samples have to be regarded as positive if:
Clear liquids, swab samples and membrane filters	<ol style="list-style-type: none"> 1. Color change from violet-brown to yellow 2. Turbidity/ sediment formation
Turbid samples	<ol style="list-style-type: none"> 1. Color change from violet-brown to yellow 2. Increasing turbidity/ sediment 3. Especially sediment shows yellow color

Growth of rare Chloramphenicol resistant bacteria may appear.

We recommend

- Microscopic examination and / or PCR analysis to verify the presence of yeasts in positive enrichments.
- Serial enrichment in case of direct color change immediately after mixing of sample and medium
- Analysis of colonies can be achieved by further enrichment on pour plates or by streaking out an aliquot on Agar plates
- We recommend the use of FastOrange® BRETTE Agar.

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

General information

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

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

The 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® BRETTE Products

BRETTE Bouillon	(12 x 240 mL)	SKU 2037-1
BRETTE Agar	(12 x 170 mL)	SKU 2037-2
BRETTE Tubes 48-pack	(48 x 5 mL)	SKU 2037-10
BRETTE Enrichment Bottles	(15 x 40 mL)	SKU 2037-11
BRETTE 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 trademarks registered in Germany and other countries.