

PIKA FASTORANGE® WILD YEAST BOUILLON

Detection of *Saccharomyces* and non-*Saccharomyces* wild yeasts including *Saccharomyces cerevisiae* var. *diastaticus* and *Brettanomyces*

SKU #2039-1

Description	Amount	Storage
Culture medium for the detection of the super attenuating yeasts <i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i> , <i>Brettanomyces</i> sp., and other wild yeasts.	12 x 240 mL	Store dark at ambient 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® Wild Yeast Bouillon is a ready-made culture medium which was specifically developed for the detection of wild yeasts in breweries and wineries. The ingredients are optimized to quickly grow both non-*Saccharomyces* and *Saccharomyces* wild yeasts, including *S. cerevisiae* var. *diastaticus* and *Brettanomyces* (*Dekkera*) yeasts.

The principle of its selectivity is based on the [EBC method 4.2.5.1 Saccharomyces Wild Yeasts, Cu-differentiation](#) which describes the use of nutrient media supplemented with copper sulphate to inhibit the growth of brewers' yeast.



Detectable microorganisms

Microorganisms	Growth conditions
All wild yeasts, including <i>S. cerevisiae</i> var. <i>diastaticus</i> and other heat tolerant strains	Aerobic at 25 °C
Specific for <i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i> and other heat tolerant wild yeasts	Aerobic at 37 °C

Guidelines for use

Although growth of most brewing yeasts and bacteria* is suppressed, it is recommended to test the in-house brewing strains for better comparability of results.

- For optimal inhibition of brewing yeasts, add an equal volume of FastOrange® Wild Yeast Bouillon to your sample and mix. The final concentration of the medium is then 50%. It is not necessary to measure the medium accurately - it is sufficient to pour it and visually judge the volume.

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

- Important!** We strictly do NOT recommend using less than 50% final broth concentration for turbid samples, as the inhibitory effect of cupric sulfate in the broth on brewing yeasts will not be sufficient.

Incubation conditions

We recommend the use of an enrichment vessel in a format that maximizes liquid surface to increase oxygen supply. Do not fully tighten the lid to allow gas exchange.

Samples are incubated at 25 °C for wild yeast growth.

For more selective growth of *S. cerevisiae* var. *diastaticus* and other heat tolerant wild yeasts, you may incubate at higher temperatures up to 40 °C. At this temperature, typical *Saccharomyces* brewing yeast will not grow – excepted KWEIK which preferably grows at higher temperatures than typical *Saccharomyces* brewing yeasts.

Analysis method	Incubation time
PCR	1-2 days <i>Brettanomyces</i> in low conc. up to 5 days
Visual inspection	3-5 days <i>Brettanomyces</i> in low conc. up to 7 days

Results of visual evaluation

Sample type	Samples are regarded as positive if:
All samples	Increase of turbidity and/or sediment formation

Besides turbidity and sediment formation, yeasts often brighten up the greenish color of the culture medium towards more yellowish, but a color change is not required for a positive result.

For specific detection of *Brettanomyces* yeasts, we recommend use of FastOrange® BRETT Bouillon (SKU 2037-1).

We recommend

1. Verify the presence of wild yeasts using PCR analysis. Refer to the list at the end of the manual for available 4e For everyone PCR Detection Kits for wild yeast detection and/or identification.
2. Verification of liquid enrichments can be achieved by further enrichment on pour plates or by streaking out an aliquot on agar plates. We recommend the use of FastOrange® Wild Yeast Agar (SKU 2039-2).
3. For growing colonies on the Wild Yeast Agar plate we recommend a microscopic examination or PCR analysis with our 4e For everyone Detection Kits.

In our study of more than 200 brewing yeast isolates we observed that in rare cases brewing yeast strains may produce visible growth, particularly some English Ale yeasts.

General information

Store the product at ambient temperature (max. 25 °C). Cold storage below 25 °C is NOT necessary.

Due to manufacturing, slight differences in color of culture medium may occur between bottles. This does NOT influence product quality.

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

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

* On the medium extremely rare chloramphenicol resistant bacteria may grow.

PIKA FastOrange® Wild Yeast Products

Wild Yeast Bouillon	(12 x 240 mL)	SKU 2039-1
Wild Yeast Agar	(12 x 170 mL)	SKU 2039-2
Wild Yeast Hygiene Swabs	(48 x 5 mL with 48 swabs)	SKU 2039-3
Wild Yeast Tubes 24-pack	(48 x 5 mL)	SKU 2039-15
Wild Yeast Tubes 48-pack	(48 x 5 mL)	SKU 2039-10
Wild Yeast Enrichment Bottles	(15 x 40 mL)	SKU 2039-11

PIKA 4e® For everyone Detection Kits

Superattenuator Yeasts Screening	SKU 2402-58
<i>S. cerevisiae</i> var. <i>diastaticus</i> Screening	SKU 2402-49
Dekkera (<i>Brettanomyces</i>) sp. Screening	SKU 2402-20
Dekkera (<i>Brettanomyces</i>) <i>anomala</i>	SKU 2402-55
Dekkera (<i>Brettanomyces</i>) <i>bruxellensis</i>	SKU 2402-54
Dekkera (<i>Brettanomyces</i>) <i>naardenensis</i>	SKU 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®, FastOrange® and 4e® For everyone Detection Kit are trademarks registered in Germany and other countries.