

## PIKA FASTORANGE® WILD YEAST ENRICHMENT BOTTLES

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

SKU #2039-11

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.	15 x 40 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](http://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 Enrichment Bottles are sterile single use flasks which are prefilled with an enrichment medium concentrate. They are easy to use and can be applied directly at the sampling point.

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. Its ingredients are optimized to quickly grow both non-*Saccharomyces* and *Saccharomyces* wild yeasts, including *Saccharomyces 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 inhibition of brewers' yeast growth by copper ions.



### 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 40 mL of sample into a bottle and mix. The final concentration of the medium is then 50%. The sample doesn't need to be accurately measured, it is sufficient to pour it and visually check the volume using the scale on the side of the sample bottle.
- Important!** We strictly do NOT recommend addition of more than 40 mL for turbid samples, as the inhibitory effect of cupric sulfate in the broth on brewing yeasts will not be sufficient.

### Incubation conditions

Incubate the enriched samples preferably in a horizontal position to increase surface and so oxygen supply. Additionally open the lid slightly to allow the release of potentially built gas.

**Attention!** In case of adding more than 40 mL of sample per enrichment bottle, the bottle would leak during horizontal incubation. Therefore, incubate bottle upright in this case.

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 37 °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, wild 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. Without PCR analysis, verification of liquid enrichments can be alternatively achieved by further enrichment on pour plates or by streaking out an aliquot on FastOrange® Wild Yeast Agar (SKU 2039-2).
3. For colonies grown on a FastOrange® Wild Yeast Agar plate, we recommend further microscopic examination or PCR analysis with 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.

\* In 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	(24 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



PIKA Weihenstephan GmbH  
Raiffeisenstrasse 31A  
85276 Pfaffenhofen  
GERMANY  
Phone +49 (0) 8441 879 48 30  
Fax +49 (0) 8441 879 48 31

[www.pika-weihenstephan.com](http://www.pika-weihenstephan.com)  
[order@pika-weihenstephan.de](mailto:order@pika-weihenstephan.de)

**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.