

# **Brettanomyces Selective Broth**

For the enrichment of Brettanomyces in wines

Cat. 2005

## Practical information

 Aplications
 Categories

 Selective enrichment
 Brettanomyces

Industry: Alcoholic beverages / Fermentation

### Principles and uses

BRETTANOMYCES SELECTIVE BROTH is a medium used for the enrichment of Brettanomyces of wines.

Brettanomyces is a genus of yeast capable of growing in high concentrations of alcohol and of fermenting sugars that have not been used by Saccharomyces cerevisiae during fermentation. The presence of Brettanomyces is associated with the appearance of strange wine aromas.

Brettanomyces is also called Dekkera (name given to species with sexual reproduction and therefore formation of spores by meiosis). Brettanomyces is generally found in red wines in barrels or bulk storage, since acids necessary to form some of the indicative aromas are extracted from grape skins. Brettanomyces contaminations have also been found in Chardonnay and Sauvignon Blanc.

Dextrose is the fermentable carbohydrate providing carbon and energy. Peptone and malt extract provide nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is source of vitamins, particularly the B-group. Thiamine is a growth factor. Selective agents are added to improve Brettanomyces recovery through the inhibition of common contaminants as Saccharomyces cerevisiae.

#### Formula in g/L

Dextrose	10	Chloramphenicol	0,1
Cycloheximide	0,1	Gentamicin	0,05
Malt extract	3	Peptone	5
Thiamine	0,01	Yeast extract	3

### Preparation

Suspend 21,3 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and boil for 10 minutes. DO NOT AUTOCLAVE.

#### Instructions for use

- Inoculate and incubate at a temperature of 25-30°C and observed after 7 days.

#### Quality control

Solubility	Appareance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25ºC)
w/o rests	Fine powder	Beige	Amber	5,3 ± 0,2

### Microbiological test

Incubation conditions: (25-30 °C / 7 days).

#### Microorganisms

Dekkera anomala ATCC 10562 Salmonella typhimurium ATCC 14028 Specification Good growth Inhibition

Inhibition Inhibition Good growth Inhibition

## Storage

Temp. Min.:2 °C Temp. Max.:25 °C

## Bibliography

Winemaking update. Brettanomyces /dekkera. Control y detección en bodegas. Wine Microbiologists practical application and procedure