

# Nocive Brewers Bacteria Broth Base Modified

Cat. 1440

Selective medium for the detection of contaminating and spoilage microorganisms in brewery.

## Practical information

Applications	Categories
Detection	Microorganisms of the brewing industry

Industry: Alcoholic beverages

## Principles and uses

Nocive Brewers Bacteria Broth Base Modified is a medium used to detect the contaminating and spoilage bacteria brewery.

This medium contains a wide variety of nutrients such as the pancreatic digestion of casein, yeast extract, meat extract, dextrose and maltose. These nutrients enhance the growth of this type of microorganisms.

Potassium acetate (instead of sodium acetate) makes the medium less inhibitory to the growth of bacteria that deteriorate beer and other beverages. Polysorbate 80 is incorporated to neutralize phenols, hexachlorophene and formalin. L-Cysteine is the reducing agent. Disodium phosphate acts as a buffer system.

## Formula in g/L

Dextrose	15	Beef extract	2
Disodium phosphate	2	Maltose	15
Pancreatic digest of casein	5	Polysorbate 80	0,5
Yeast extract	5	L-Malic Acid	0,5
L-Cysteine HCl	0,2	Chlorophenol Red	0,07
Potassium Acetate	6		

Typical formula g/L \* Adjusted and/or supplemented as required to meet performance criteria.

## Preparation

Suspend 51,3 grams of medium in 500 ml of distilled water and 500 ml of beer without gas. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Sterilize in autoclave at 121 °C for 15 minutes. Cool to 45-50 °C, mix well and dispense into tubes.

## Instructions for use

- Incubate at 30-35 °C and observe after 4 days.

After incubation, the isolated acid producer colonies must be tested by Gram-stained and catalasa tests. Gram-positive and catalase-negative cocci or rods may tentatively be considered lactic acid bacteria.

## Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Beige	Pink-red	5,8±0,2

## Microbiological test

Incubation conditions: (30-35 °C / 4 days).

Microorganisms	Specification	Characteristic reaction
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Pediococcus damnosus ATCC 29358  
Pediococcus acidilactici ATCC 8042  
Lactobacillus brevis ATCC 8287

Good growth  
Good growth  
Good growth

Acid production (yellow)  
Acid production (yellow)  
Acid production (yellow)

## Storage

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Temp. Min.:2 °C  
Temp. Max.:25 °C

## Bibliography

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Back, 1980 Brauwelt 1562  
Dacha, 1981, Brauwelt 1778