

WL NUTRIENT AGAR

Dehydrated medium for cultivating yeasts, molds and bacteria encountered in brewing and industrial fermentation processes.

TYPICAL FORMULA (g/L)

Glucose	50.0
Potassium Chloride	0.425
Tryptone	5.0
Yeast Extract	4.0
Magnesium Sulfate	0.125
Manganese Sulfate	0.0025
Calcium Chloride	0.125
Monopotassium Phosphate	0.55
Ferric Chloride	0.0025
Bromcresol Green	0.022
Agar	20.0
Final pH 5.5 ± 0.2	

DESCRIPTION

WL NUTRIENT AGAR is a dehydrated medium for cultivating yeasts, molds and bacteria encountered in brewing and industrial fermentation processes.

PRINCIPLE

Tryptone provides nitrogen and other nutrient to support microbial growth. Yeast extract is a source of amino acids and vitamins of group B. Glucose is a source of carbohydrate. Monopotassium phosphate buffers the pH of the medium. Potassium chloride, calcium chloride and ferric chloride are essential ions and help to maintain osmotic balance. Magnesium sulfate and manganese sulfate are sources of divalent cations. Bromcresol green is a pH indicator. Agar is the solidifying agent.

PREPARATION

Suspend 80.0 g of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes. Dispense in final containers.

TECHNIQUE

- Inoculate 0.1 mL of the beer sample onto well-dried plates.
- Spread over the surface of the medium using a sterile glass rod.
- Incubate at 36±1 °C for bacteria and at 30±2°C for yeasts for total 42-72 hours.

INTERPRETATION OF RESULTS

Observe for microbial growth.

STORAGE

10-30°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident. Store the prepared medium at 2-8 °C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Green and Gray. 1950. Wallerstein Lab. Commun. 12:43.
2. Green and Gray. 1950. Wallerstein Lab. Commun. 13:357.
3. MacFaddin. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, Md.



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PRODUCT SPECIFICATIONS

NAME
WL NUTRIENT AGAR

PRESENTATION
Dehydrated medium

STORAGE
10-30 °C

PACKAGE

Code	Content	Packaging
610234	500 g	500 g of powder in plastic bottle
620234	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
5.5 ± 0.2

USE
WL NUTRIENT AGAR is a dehydrated medium for cultivating yeasts, molds and bacteria encountered in brewing and industrial fermentation processes.

TECHNIQUE
Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM

Dehydrated medium
Appearance: free-flowing, homogeneous.
Colour: light beige with greenish tint

Prepared medium
Appearance: slightly opalescent
Colour: blue to greenish blue

SHELF LIFE
4 years

QUALITY CONTROL







- Control of general characteristics, label and print
- Sterility control
- Microbiological control

7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis

Inoculum for productivity: 10-100 UFC/ml
Incubation conditions: 42-72 h at 36 ± 1°C

Microorganisms	Growth
<i>Lactobacillus fermentum</i> ATCC 9338	Fair to good
<i>Escherichia coli</i> ATCC 25922	Fair to good
<i>Saccharomyces cerevisiae</i> ATCC 9763	Good

TABLE OF SYMBOLS

LOT Batch code	 Temperature limitation	 Manufacturer	 Contains sufficient for <n> tests
REF Catalogue number	 Keep away from heat	 Use by	 Caution, consult accompanying documents



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