

TECHNICAL DATA SHEET

NUTRIENT BROTH

NUTRITIVE MEDIA

1 INTENDED USE

Nutrient Broth is a general usage medium for a large variety of microorganisms without particular nutritional requirements. Its formula complies with the directives of the French J.O. of August 8, 1972 for the detection of the intrinsic inhibitory capacity of cosmetic products.

2 PRINCIPLES

Nutrient Broth is composed of a mixture of Tryptone and meat extract, which aids microbial growth. Sodium chloride is included to maintain osmotic equilibrium

3 TYPICAL COMPOSITION

The composition can be adjusted in order to achieve optimal performance.

For 1 liter of media :

- Tryptone	10,0 g
- Meat extract	5,0 g
- Sodium chloride	5,0 g

pH of the ready-to-use media at 25 °C : 7,2 ± 0,2.

4 PREPARATION

- Dissolve 20,0 g of dehydrated media (BK003) in 1 liter of distilled or demineralized water.
- Stir slowly until complete dissolution.
- Dispense into tubes or vials.
- Sterilize in an autoclave at 121 °C for 15 minutes.
- Cool the media to room temperature.

✓ **Reconstitution :**
20,0 g/L

✓ **Sterilization :**
15 min at 121°C

5 INSTRUCTIONS FOR USE

- Inoculate the media with purified cultures or with other types of mixed microflora.
- Incubate at the required optimal temperature, aerobically or in a CO₂-enriched atmosphere, depending on the nature of the bacteria to be cultured.

6 RESULTS

Growth is demonstrated by turbidity in the tubes or vials, a result of microbial multiplication.

7 QUALITY CONTROL

Dehydrated media : cream powder, free-flowing and homogeneous.

Prepared media : amber, limpid solution.

Typical culture response after 24 hours of incubation 37 °C, inoculum $\leq 10^2$ microorganisms :

Microorganisms		Growth
<i>Escherichia coli</i>	WDCM 00013	Positive
<i>Salmonella</i> Typhimurium	WDCM 00031	Positive
<i>Enterococcus faecalis</i>	WDCM 00087	Positive
<i>Staphylococcus aureus</i>	WDCM 00034	Positive

8 STORAGE / SHELF LIFE

Dehydrated media : 2-30 °C.

The expiration date is indicated on the label.

Prepared media in tubes or vials ^(*) : 180 days at 2-25 °C.

(*) Benchmark value determined under standard preparation conditions, following manufacturer's instructions.

9 PACKAGING

Dehydrated media :

500 g bottle BK003HA

10 BIBLIOGRAPHY

Journal Officiel du 8 Août 1972. Méthode officielle d'analyse bactériologique pour la recherche d'un pouvoir inhibiteur intrinsèque.

11 ADDITIONAL INFORMATION

The information provided on the labels take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

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