

## NUTRIENT BROTH

**IVD in Class A, EU Reg. 2017/746**

For in vitro diagnostic use

Nutrient Broth is a general-purpose medium for the cultivation of nonfastidious bacteria.

### DESCRIPTION

Nutrient Broth is a general-purpose medium for the cultivation of nonfastidious bacteria. Nutrient Broth is a liquid medium used for the cultivation of a wide variety of organisms from clinical specimens and other materials.

### PRINCIPLE

Beef extract and peptone provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Sodium chloride maintains the osmotic balance of the medium.

COMPOSITION	g/L
Beef Extract	1.0
Peptone	5.0
Yeast Extract	2.0
Sodium Chloride	5.0

**Final pH 7,4 ± 0,2 at 25°C**

### WARNING AND PRECAUTIONS

**For in vitro diagnostic use.**

Observe the precautions normally taken when handling laboratory reagents.

**Dehydrated medium: HIGHLY HYGROSCOPIC.** During the handling, wear dust protection mask. Avoid the eye contact. Do not use beyond the expiration date or if the product shows signs of deterioration, an altered color or has compacted.

**Prepared Medium:** The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous.

**Safety Data Sheet** is available on request for professional users.

All waste must be disposed of according to local directives.

### STORAGE AND STABILITY

<b>Dehydrated medium:</b>	10-30°C
<b>Prepared medium:</b>	10-25°C

NUTRIENT BROTH is stable until the expiration date indicated on the label under the recommended storage conditions.

### PREPARATION

**Dehydrated medium:** Suspend 13 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes.

**Prepared medium (bottles, tubes):** ready to use.

### PROCEDURE

Inoculate broth with test sample. Incubate at 35 ± 2°C for 18-24 hours or longer if necessary.

### RESULTS

Turbidity indicates microbial growth.

### QUALITY CONTROL

**Dehydrated medium:** free-flowing, homogeneous, white to light beige.

**Prepared medium:** clear to slightly opalescent, light amber.

**Typical response after incubation at 35±2°C for 18-24 hours:**

MICROORGANISM	GROWTH
Staphylococcus aureus ATCC® 25923	Good/Turbidity
Escherichia coli ATCC® 25922	Good/Turbidity

### REFERENCES

1. Association of Official Analytical Chemists (1995) Official methods of analysis of AOAC International, 16th ed.
2. Marshall, R.T. (ed.) (1993) Standard methods for the microbiological examination of dairy products, 16th ed.
3. American Public Health Association (1923) Standard methods of water analysis, 5th ed.
4. Journal Officiel (French) du 8 Août 1972. Méthode officielle d'analyse bactériologique pour la recherche d'un pouvoir inhibiteur intrinsèque. - Dif.

PRESENTATION	Packaging	REF.
<b>Dehydrated medium:</b> <b>NUTRIENT BROTH</b>	100 g (7,6 L)	11116
	500 g (38,4 L)	10116
<b>Prepared medium:</b> <b>NUTRIENT BROTH</b>	6 x 100 mL bottles	64311
	100 x 3 mL tubes	5274
	100 x 5 mL tubes	5176
	20 x 10 mL tubes	5070/20
	100 x 10 mL tubes	5070/100

### SYMBOLS

	Read the instructions		Biological hazard
	CE Mark (product complies with the requirements of Regulation (EU) 746/2017)		
	Temperature limitation		Use by
	For in vitro diagnostic use		Manufacturer