

Nutrient Broth

Art. No. 02-140

Specification

A general purpose liquid culture medium for non-fastidious microorganisms, according to the British Pharmacopoeia.

Formula* in g/L

Meat extract.....	1,00
Yeast extract.....	2,00
Peptone.....	5,00
Sodium chloride.....	5,00
Final pH 7,4 ± 0,2 at 25°C	

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Dissolve 13 g of powder in 1 L of distilled water, heating if necessary to dissolve the medium. Distribute into containers and sterilize in the autoclave at 121°C for 15 minutes.

Description

Nutrient Broth is the liquid version of the solid medium. It is a classical meat infusion broth, that is useful for routine laboratory purposes. Supplementation with yeast extract allows the growth of most common organisms. It is also suitable for the preparation of inocula, efficacy testing of biocides, as well as for the determination of the Phenol Coefficient etc.

References

- ATLAS, R.M., L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, Inc. London.
- BRITISH PHARMACOPOEIA (1968) 357.
- BRITISH STANDARD S41 (1934) Determining the Rideal-Walker Coefficient of Disinfectants. BSI London 9.
- ISO/TS 11133-1: 2009. Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory.
- ISO/TS 11133-2: 2003 Corr. 2004. Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 2: Practical guidelines on performance testing of culture media.

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4°C to 30°C and <60% RH).

Quality control

Incubation temperature: 35°C ± 2,0

Incubation time: 24 h

Inoculum: 10-100 CFU. Spiral Plate Method (according to standard ISO/TS 11133-1/2)

Microorganism	Growth	Remarks
<i>Pseudomonas aeruginosa</i> ATCC 27853	Good	-
<i>Enterococcus faecalis</i> ATCC 19433	Good	-
<i>Bacillus subtilis</i> ATCC 6633	Good	-
<i>Escherichia coli</i> ATCC 25922	Good	-
<i>Salmonella typhimurium</i> ATCC 14028	Good	-
<i>Yersinia enterocolitica</i> ATCC 9610	Good	-