

NUTRIENT BROTH N.2

Liquid medium recommended for sterility testing of aerobic organisms as well as a base for the enrichment of special media.

TYPICAL FORMULA	(g/l)
Beef Extract	10.0
Peptone	10.0
Sodium Chloride	5.0
Final pH 7.5 ± 0.2 at 25°C	

DESCRIPTION

NUTRIENT BROTH N.2 is a liquid medium recommended for sterility testing of aerobic organisms. It is also the basal medium for PRESTON CAMPYLOBACTER ENRICHMENT BROTH used for the cultivation of fastidious pathogens.

PRINCIPLE

Beef extract and peptone provide the nitrogen and vitamins required for organism growth. Sodium chloride supplies electrolytes and maintains the osmotic balance of the medium.

PREPARATION

Suspend 25.0 g of powder in 1 liter of distilled water. Mix well, distribute into final containers and autoclave at 121°C for 15 minutes.

For preparing PRESTON CAMPYLOBACTER ENRICHMENT BROTH suspend 12.5 g of powder in 475 ml of distilled water. Heat until completely dissolved. Autoclave at 121°C for 15 minutes. Cool to 45-50°C. Aseptically add 25 ml of HORSE BLOOD LYSED (ref. 83397), 1 vial of PRESTON CAMPYLOBACTER SELECTIVE *Supplement* (ref. 81004) and 1 vial of CAMPYLOBACTER GROWTH *Supplement* (ref. 81050). Aseptically dispense 5 ml volumes in sterile small screw-capped tubes. Pay attention, the head space above the liquid should be as small as possible to ensure microaerobic conditions.

TECHNIQUE

Inoculate the broth with the sample and incubate at 42°C for 18-24 hours. Subculture on to selective agar.

INTERPRETATION OF RESULTS

Turbidity indicates microbial growth. Refer to the technical sheet for the selective medium.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. 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. British Pharmacopoeia (1980) London HMSO.
2. British Standard 541: (1934) Determining the Rideal Walker Coefficient of Disinfectants BSI London, p.9.
3. Bolton F. J. and Robertson L. (1982) J. Clin. Pathol. 35. 462-467.
4. Bolton F. J., Coates D. and Hutchinson D. N. (1984) J. Appl. Bact. 56. 151-157.



LIOFILCHEM® S.r.l.

Via Scozia, Zona Ind.le - 64026, Roseto degli Abruzzi (TE) - ITALY

Tel +39 0858930745 Fax +39 0858930330 Website: www.liofilchem.net E-mail: liofilchem@liofilchem.net

PRODUCT SPECIFICATIONS

NAME

NUTRIENT BROTH N.2

PRESENTATION

Dehydrated medium

STORAGE

10-30°C

PACKAGE

Ref.	Content	Packaging
610217	500 g	500 g of powder in plastic bottle
620217	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

7.5 ± 0.2

USE

NUTRIENT BROTH N.2 is a liquid medium recommended for sterility testing of aerobic organisms. It is also the basal medium for PRESTON CAMPYLOBACTER ENRICHMENT BROTH used for the cultivation of fastidious pathogens

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous

Colour: yellowish

Prepared medium

Appearance: slightly opalescent

Colour: amber

SHELF LIFE

4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control
Inoculum for productivity: 10-100 CFU/ml
Inoculum for selectivity: 10⁴-10⁵ CFU/ml
Inoculum for specificity: ≤10⁴ CFU/ml
Incubation conditions: 18-24 h at 36 ± 1°C

Microorganism

Staphylococcus aureus ATCC® 25923










Pseudomonas aeruginosa ATCC® 27853

Growth

Good

Good

TABLE OF SYMBOLS

 LOT	Batch code	 Keep away from heat sources	 Manufacturer	 Use by	 Fragile, handle with care
 REF	Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Consult instruction for use	



LIOFILCHEM® S.r.l.

Via Scozia, Zona Ind.le - 64026, Roseto degli Abruzzi (TE) - ITALY

Tel +39 0858930745 Fax +39 0858930330 Website: www.liofilchem.net E-mail: liofilchem@lioilchem.net