

CM 21,323 – NUTRIENT BROTH (W/O NaCl) pH 6.9 (VEG.)

INTENDED USE

General purpose medium for cultivation of microorganisms.

PRODUCT SUMMARY AND EXPLANATION

Nutrient Broth (w/o NaCl) pH 6.9 (Veg) is prepared by completely replacing animal based peptones with vegetable peptones which makes the medium free of BSE/TSE risks. Nutrient Broth (Veg) with pH 6.9 and devoid of NaCl is a relatively simple formulation which can support the growth of non-fastidious microorganisms. If this medium is incorporated with 6.5% NaCl then it acts as a differential and selective agent by interfering with the osmotic balance and permeability of the membrane of majority of microorganisms. On addition of 6.5% sodium chloride, this medium can also be used to determine salt tolerance of Enterococci.

COMPOSITION

Ingredients	Gms / Ltr
Veg Peptone	5.000
Veg extract	3.000

PRINCIPLE

The medium consists of Veg Peptone and Veg extract that support the growth of non-fastidious microorganisms. It provides nitrogenous and carbonaceous compounds, long chain amino acids and other essential growth nutrients.

INSTRUCTION FOR USE

- Dissolve 8.0 grams in 1000 ml purified/distilled water.
- Heat, if necessary, to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow coloured may have slightly greenish tinge, homogeneous, free flowing powder.
Appearance of prepared medium	: Light amber coloured clear solution without any precipitate.
pH (at 25°C)	: 6.9 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Good-luxuriant	35-37°C	18-48 Hours



Enterobacter aerogenes	13048	50-100	Good-luxuriant	35-37°C	18-48 Hours
Enterococcus faecalis	29212	50-100	Good-luxuriant	35-37°C	18-48 Hours
Salmonella serotype Typhi	6539	50-100	Good-luxuriant	35-37°C	18-48 Hours
Staphylococcus aureus	25923	50-100	Good-luxuriant	35-37°C	18-48 Hours

PACKAGING:

In pack size of 100 gm and 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Baird R.B., Eaton A. D., and Rice E.W. Eds., 2015, Standard Methods for the Examination of Water and Wastewater, 23rd Ed., APHA, Washington, D.C.
2. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
4. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

 Good Manufacturing Practices Certified	 Best Before	 Quantity	 Catalogue Number	 Manufacturer
 Temperature Unit	 Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For Lab Use Only

