

CM 21,314 – NUTRIENT AGAR W/O NaCl (as per USP)

INTENDED USE

General purpose medium.

PRODUCT SUMMARY AND EXPLANATION

If this medium is incorporated with sodium chloride, then it acts as a differential and selective agent by interfering with the osmotic balance and the permeability of membrane of majority of microorganisms. On addition of Sodium chloride, the medium can also be used to determine salt tolerance of bile esculin positive Enterococci.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	5.000
Beef extract	3.000
Agar	15.000

PRINCIPLE

Nutrient Agar devoid of NaCl is a relatively simple formulation containing Beef extract and peptone which can support the growth of non-fastidious microorganisms. It provides nitrogenous and carbonaceous compounds, long chain amino acids and other essential growth nutrients. It has the formula originally developed for use in Standard Methods for the Examination of Water and Waste Water.

INSTRUCTION FOR USE

Dissolve 23.0 grams in 1000 ml purified / distilled water.
Heat if necessary to dissolve the medium completely.
Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.
Mix well and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow 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
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Salmonella Typhi	6539	50-100	Good-luxuriant	35-37°C	18-48 Hours
Klebsiella 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
Escherichia coli	8739	50-100	Good-luxuriant	35-37°C	18-48 Hours
Staphylococcus aureus	6538	50-100	Good-luxuriant	35-37°C	18-48 Hours
Staphylococcus epidermidis	12228	50-100	Good-luxuriant	35-37°C	18-48 Hours

PACKAGING:

Inpacksizeof100 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. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
3. 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.
4. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.



 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. 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 LabUse Only

