

CM 22324 – NUTRIENT AGAR

INTENDED USE

For general cultivation of less fastidious microorganisms.

PRODUCT SUMMARY AND EXPLANATION

Nutrient Agar is a basic culture media used for maintaining microorganisms, cultivating fastidious organisms by enriching with serum or blood and are also used for purity checking prior to biochemical or serological testing. Nutrient Agar has the formula originally designed for use in the Standard Method for Examination of Water and Waste water. It is also recommended to test microorganism from clinical specimen. It is one of the several non-selective media useful in routine cultivation of microorganisms. It can be used for the cultivation and enumeration of bacteria which are not particularly fastidious. Addition of different biological fluids such as horse or sheep blood, serum, egg yolk etc. makes it suitable for the cultivation of related fastidious organisms.

COMPOSITION

Ingredients	Gms / Ltr
Agar	15.000
Sodium chloride	5.000
Peptone	5.000
Yeast extract	1.500
Beef extract	1.500

PRINCIPLE

Medium contains Peptone, Beef extract and Yeast extract provide the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients necessary for the growth of bacteria. Sodium chloride maintains the osmotic equilibrium of the medium. Agar act as a solidifying agent.

INSTRUCTION FOR USE

1. Nutrient Agar is ready to use solid media in glass bottle. The medium is pre-sterilized hence sterilization is not required.
2. Prior to use, medium in the bottle can be melted either by using a pre-heated water bath or any other method.
3. Slightly loosen the cap before melting.
4. Pour the liquefied agar into each plate, anticipated to need for the test and cover the bottom to about 6-7 mm.
5. Allow to harden or firm up at room temperature. Plates are now ready to inoculate or refrigerate for later use.

QUALITY CONTROL SPECIFICATIONS

Appearance of Prepared medium : Light yellow colour, clear to slightly opalescent gel.
Appearance of prepared medium : 100 ml of the medium in glass bottle.
pH (at 25°C) : 7.4 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Good - Luxuriant	>=50%	37±2°C	18-24 Hours
<i>Pseudomonas aeruginosa</i>	27853	50-100	Good - Luxuriant	>=50%	37±2°C	18-24 Hours
<i>Staphylococcus aureus</i>	25923	50-100	Good - Luxuriant	>=50%	37±2°C	18-24 Hours
<i>Salmonella Typhi</i>	6539	50-100	Good - Luxuriant	>=50%	37±2°C	18-24 Hours
<i>Staphylococcus aureus</i>	25923	50-100	Good - Luxuriant	>=50%	37±2°C	18-24 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Good - Luxuriant	>=50%	37±2°C	18-24 Hours

PACKAGING:

Inpacksize of 100 ml X 25.

STORAGE

On receipt, store bottles in the dark at 10 to 25° C. Avoid freezing and overheating. The medium may be used up to the expiration date and incubated for the recommended incubation times. Bottles from opened packages can be used up to the expiration date. Opened bottles must be used immediately. To prepare plates or tubes from the bottled medium, it must first be liquefied. Do not liquefy any leftovers for a second time.

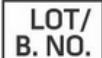
DISPOSAL

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

REFERENCES

1. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978, 14th Ed., Washington D.C.
2. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
3. 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.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
5. 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.
6. Lapage S., Shelton J. and Mitchell T., 1970, Methods in Microbiology', Norris J. and Ribbons D., (Eds.), Vol. 3A, Academic Press, London.
7. MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd Ed., Lippincott, Williams and Wilkins, Baltimore.
8. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.



 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative MedNet GmbH Barkstrasse 10, 48143 Münster, Germany	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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