

CM 21,331 – NUTRIENT MEDIUM

INTENDED USE

A general purpose medium as per EP.

PRODUCT SUMMARY AND EXPLANATION

Nutrient medium can be used for the cultivation of a wide variety of organisms from clinical specimens and other materials. This medium can be enriched with other ingredients such as blood, serum, sugars, etc., for special purposes.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	5.000
Sodium chloride	3.500
Yeast extract	1.500
Beef extract	1.500
Agar	15.000

PRINCIPLE

The medium consists of peptone beef extract which provides carbon, nitrogen compounds, vitamins, minerals and amino acids necessary for the growth of organism. Yeast extract serves as a rich reservoir of vitamins especially B-complex vitamins. Agar is the solidifying agent. Sodium chloride maintains the osmotic balance in the medium.

INSTRUCTION FOR USE

Dissolve 26.50 grams in 1000 ml purified / distilled water.

Heat to boiling to dissolve the medium completely.

Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.

Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium : Light yellow to amber coloured clear to slightly opalescent gel forms in petri plates.

pH (at 25°C) : 7.2±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation temperature	Incubation Period
Pseudomonas aeruginosa	9027	50-100	Luxuriant	≥70%	35-37°C	48-72 Hours



Streptococcus pneumoniae	33400	50-100	Luxuriant	$\geq 70\%$	35-37°C	48-72 Hours
Staphylococcus aureus	6538	50-100	Luxuriant	$\geq 70\%$	35-37°C	48-72 Hours
Escherichia coli	8739	50-100	Luxuriant	$\geq 70\%$	35-37°C	48-72 Hours
Salmonella Typhimurium	23564	50-100	Luxuriant	$\geq 70\%$	35-37°C	48-72 Hours
Enterococcus faecalis	29212	50-100	Luxuriant	$\geq 70\%$	35-37°C	48-72 Hours
Bacillus subtilis	6633	50-100	Luxuriant	$\geq 70\%$	35-37°C	48-72 Hours

PACKAGING:

In pack size of 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.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MedNet GmbH Barkstrasse 10, 48163 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 Lab Use Only

