

## Nutrient Agar

**Product No.** CM107

### Intended Use

Used for the cultivation of bacteria and for the enumeration of organisms. (GB, SN)

**Specification** 250 g

<b>Ingredients</b>	<b>(g/L)</b>
Peptone	10.0
Beef Extract	3.0
Sodium Chloride	5.0
Agar	15.0
(pH 7.3 ± 0.2)	

### Additional Reagents

No

### Principle and Interpretation

Nutrient Agar consists of peptone, beef extract and agar. This relatively simple formulation provides the nutrients necessary for the replication of a large number of microorganisms that are not excessively fastidious. The beef extract contains water-soluble substances including carbohydrates, vitamins, organic nitrogen compounds and salts. Peptones are the principle sources of organic nitrogen, particularly amino acids and long-chained peptides. Agar is the solidifying agent.

### Directions

Suspend 33.0 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 121°C for 15 minutes. Cool to approximately 46°C and pour into sterile Petri dishes or tubes to form slants.

### Precautions

No

### Quality Control

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Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth (Productivity Ratio : PR)
<i>Escherichia coli</i> ATCC 25922	50-250	TSA	quantitative	36°C±1°C 20h-24h	PR≥0.7
<i>Escherichia coli</i> CICC 25012 [CMCC(B) 43201]					
<i>Staphylococcus aureus</i> ATCC 6538					
<i>Staphylococcus aureus</i> CICC 25018 [CMCC(B) 26305]					
<i>Bacillus subtilis ssp. Spizizenii</i> ATCC 6633					
<i>Bacillus subtilis ssp. Spizizenii</i> CICC 25023 [CMCC(B) 63542]					

### Storage Conditions

Keep container tightly closed and store in a cool dry place.

### Shelf Life

3 years.

### Related Products

Product No.	Product Name	Specification
CM107-01	Nutrient Agar	1000 g
CM107-05	Nutrient Agar Slants	20 tubes
CM107-07	Nutrient Agar	100 mLx10
PB005A	Nutrient Agar	20 Plates
GCM107	Nutrient Agar	250 g

*For laboratory use in industry or R&D purpose. Not for drug, household or other uses.*