

Plate Count Agar (PCA)

Product No. CM101

Intended Use

Used for enumerating aerobic bacteria in foods. (GB,SN, FDA BAM)

Specification 250 g

Ingredients	(g/L)
Tryptone	5.0
Yeast Extract	2.5
Dextrose	1.0
Agar	15.0
(pH 7.0 ± 0.2)	

Additional Reagents

No

Principle and Interpretation

Tryptone and yeast extract are used as nutrients in the culture medium to provide nitrogen sources and growth factors required for the growth of bacterial cells; glucose provides the carbon source required for the growth of bacterial cells; Agar is a coagulant.

Directions

Suspend 23.5 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.

Precautions

No

Quality Control

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 48h±2h	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</i> ATCC 6633					
<i>Bacillus subtilis</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
CM101-01	Plate Count Agar (PCA)	1000 g
CM101-07	Plate Count Agar (PCA)	100 mLx10
PB004A	Plate Count Agar (PCA)	20 Plates
GCM101	Plate Count Agar (PCA)	250 g
GCM101-1K	Plate Count Agar (PCA)	1000 g

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