

Nutrient Agar with Manganese

Product No. CM604

Intended Use

Used for isolation and culture of *Bacillus thermophilus* in commercial sterility test of acidic canned food.(GB)

Specification 250 g

Ingredients	(g/L)
Tryptone	10.0
Beef extract	3.0
Sodium chloride	5.0
Agar	15.0
Manganese sulfate	0.0308
(pH 7.3 ± 0.2)	

Additional Reagents

No

Principle and Interpretation

Tryptone and beef extract are used as nutrients in the culture medium to provide nitrogen sources and growth factors required for the growth of bacterial cells; Sodium chloride maintains the osmotic equilibrium; Agar is a coagulant; Manganese sulfate promotes the production of spores.

Directions

Suspend 33.0 g of the powder in 1L of distilled water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 121°C for 15 minutes.

Precautions

No

Quality Control

Microorganisms	Method	Incubation	Growth	Characteristic morphology
<i>Bacillus cereus</i> CMCC(B) 63303	qualitative	45°C±1°C 3d	Grows well	Pale yellow colonies with darker center color
<i>Bacillus subtilis</i> ATCC 6633				Milky white colonies with a darker center
<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.

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