

Baird-Parker Agar Base

Product No. CM302

Intended Use

Used for the selective isolation and enumeration of *Staphylococci aureus* from foods. (FDA BAM, GB, SN)

Specification 250 g

Ingredients	(g/L)
Pancreatic Digest of Casein	10.0
Beef Extract	5.0
Yeast Extract	1.0
Sodium Pyruvate	10.0
Glycine	12.0
Lithium Chloride (6H ₂ O)	5.0
Agar	20.0
(pH 7.0 ± 0.2)	

Additional Reagents

Egg Yolk Tellurite Enrichment 5mL×10

Principle and Interpretation

Baird-Parker Agar Base contains pancreatic digest of casein, beef extract and yeast extract as sources of nitrogenous compounds, carbon, sulfur, vitamins and trace minerals. Sodium pyruvate is incorporated in order to stimulate the growth of *S.aureus* without destroying the selectivity. The tellurite additive is toxic to egg yolk-clearing strains other than *S.aureus* and imparts a black color to the colonies. The egg yolk additive, in addition to being an enrichment, aids in the identification process by demonstrating lecithinase activity (egg yolk reaction). Glycine and lithium chloride have inhibitory action for organisms other than *S.aureus*.

Directions

Suspend 63.0 g of the powder in 950 mL of distilled water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 121°C for 15 minutes. Cool to approximately 50°C. Aseptically add 5 mL of egg yolk tellurite enrichment (Cat. No. CM303) to 95 mL base. Mix

thoroughly and pour into sterile Petri dishes.

Store prepared plates in refrigerator for no more than 48 hours.

Precautions

No

Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth (Productivity Ratio : PR)
<i>Staphylococcus aureus</i> ATCC 25923	50-250	TSA	quantitative	36°C±1°C 24h-48h	PR≥0.7, colonies are black, convex, surrounded by opaque zone and frequently with an outer clear zone
<i>Staphylococcus aureus</i> CICC 25018 [CMCC(B) 26305]					
<i>Staphylococcus epidermidis</i> CMCC(B) 26069	-	-	qualitative		Colonies are black, without opaque zone and outer clear zone
<i>Escherichia coli</i> ATCC 25922			semiquantitative		G≤1
<i>Escherichia coli</i> CICC 25012 [CMCC(B) 43201]					

Storage Conditions

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

Shelf Life

3 years.

Related Products

Product No.	Product Name	Specification
CM302-01	Baird-Parker Agar Base	1000 g
CM302-07	Baird-Parker Agar Base	95 mLx10
PB022A	Baird-Parker Agar	20 Plates

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

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