

## Eosin Methylene Blue Agar

**Product No.** CM105

### Intended Use

Used for the isolation and differentiation of Gram-negative enteric bacteria, especially *E.Coli*. (GB, SN, FDA BAM)

**Specification** 250 g

<b>Ingredients</b>	<b>(g/L)</b>
Peptone	10.0
Lactose	10.0
Dipotassium Phosphate	2.0
Eosin Y	0.4
Methylene Blue	0.065
Agar	15.0

(pH7.1±0.2)

### Additional Reagents

No

### Principle and Interpretation

Peptone is used as a nutrient in the medium to provide nitrogen source and other nutrient elements needed for cell growth. Lactose provides carbon source for cell growth of bacteria. Eosin Y and methylene blue are both inhibitors (inhibiting the growth of gram-positive bacteria) and indicators, and they combine to form black precipitates under acidic conditions. Agar is a coagulant.

### Directions

Suspend 37.5 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. Cool to approximately 55°C and pour into sterile Petri dishes.

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**BEIJING LAND BRIDGE TECHNOLOGY CO.,LTD.**

No. 3, Gaobeidian North Road, Chaoyang District, Beijing (100123)

Tel: +86-10-51203999 +86-400-810-1304

Mail: info@beijinglandbridge.com Web: www.beijinglandbridge.com

### Precautions

No

### Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth
<i>Escherichia coli</i> ATCC 25922	50-250	TSA	quantitative	36.0°C±1°C 18h-24h	PR» 0.5, black colony with metallic luster
<i>Escherichia coli</i> CICC 25012 [CMCC(B) 43201]					
<i>Salmonella typhimurium</i> ATCC14028	-	-	qualitative		colorless and translucent colony
<i>Salmonella typhimurium</i> CICC25045[CMCC(B) 50976]					
<i>Staphylococcus aureus</i> ATCC 6538			-		
<i>Staphylococcus aureus</i> CICC 25018 [CMCC(B) 26305]					

### Storage Conditions

Store tightly closed in a cool, dry place.

### Shelf Life

3 years.

### Related Products

Product No.	Product Name	Specification
CM105-01	Eosin Methylene Blue Agar	1000 g
GCM105	Eosin Methylene Blue Agar	250g
CM105-07	Eosin Methylene Blue Agar	100mL x 10
PB006A	Eosin Methylene Blue Agar Plate	10Plate x 2

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

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