

Brilliant Green Lactose Bile Broth (BGLB)

Product No. CM103

Intended Use

Used for the detection of *Coliforms*. (GB, SN, FDA BAM)

Specification 250 g

Ingredients	(g/L)
Peptone	10.0
Lactose	10.0
Oxgall	20.0
Brilliant Green	0.0133
(pH 7.2 ± 0.1)	

Additional Reagents

No

Principle and Interpretation

Peptone acts as a nutrient in the culture medium to provide nitrogen source, vitamins, amino acids and growth factors required for bacterial cell growth; Oxgall and brilliant green inhibit the growth of Gram-positive bacteria and non-*coliform* Gram-negative bacteria; lactose is a fermentable carbohydrate, and *coliform* bacteria can ferment lactose to produce gas and be detected.

Directions

Suspend 40.0 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Dispense 10mL into test tubes, containing inverted Durham tubes. Autoclave at 121°C for 15 minutes.

Precautions

No

Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium/ Counting medium	Method	Incubation	Growth (Productivity Ratio : PR)
<i>Escherichia coli</i> ATCC 25922	10-100	TSA	Semi-quantitative	36°C±1°C 48h±2h	Turbidity:2; gas production>1/3
<i>Escherichia coli</i> CICC 25012 [CMCC(B) 43201]					
<i>Citrobacter freundii</i> ATCC 43864					
<i>Citrobacter freundii</i> CICC 25015 [CMCC(B) 48098]					
<i>Enterococcaceae</i> ATCC 29212	1000-5000				Turbidity:0/1; No /weak gas production
<i>Enterococcaceae</i> CICC 25019 [CMCC(B) 32482]					

Storage Conditions

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

Shelf Life

3 years.

Related Products

Product No.	Product Name	Specification
CM103	Brilliant Green Lactose Bile Broth (BGLB)	250 g
CM103-01	Brilliant Green Lactose Bile Broth (BGLB)	1000g
GCM103	Brilliant Green Lactose Bile Broth (BGLB)	250 g
CM103-05	Brilliant Green Lactose Bile Broth (BGLB)-Single	10 mL×20

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