

Lactose Bile Fermentation Broth

Product No. CM108

Intended Use

Used for the determination of *coliform* and *fecal coliform* bacteria (GB)

Specification 250 g

Ingredients	(g/L)
Peptone	20.0
Ox bile	5.0
Lactose	10.0
Bromocresol purple (pH 7.4 ± 0.2)	0.01

Additional Reagents

No

Principle and Interpretation

Peptone provide nitrogen source, minerals and other nutrients; lactose is fermentable sugar; bromocresol purple is used as acid-base indicator. The bacteria in the *coliform* group can ferment lactose to produce acid and gas, which changes the indicator from purple to yellow. At the same time, bubbles can be seen in the inverted tube.

Directions

Suspend 35.0 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 115°C for 15minutes.

Precautions

No

Quality Control

Microorganisms	Inoculum (CFU)	Method	Incubation	Growth		
				10 ⁻⁶	10 ⁻⁷	10 ⁻⁸
<i>Escherichia coli</i> ATCC 25922	10 ⁻⁶ 10 ⁻⁷ 10 ⁻⁸	quantitative	36°C±1°C 24h±48h	Good	Good	Good
<i>Klebsiella pneumoniae</i> ATCC 13882				Acid and gas production	Acid and gas production	Acid and gas production
<i>Enterobacter aerogenes</i> ATCC 13048				Acid and gas production	Acid and gas production	Acid and gas production
<i>Proteus mirabilis</i> CMCC (B)49005				No Acid and gas production	No Acid and gas production	No Acid and gas production
<i>Staphylococcus aureus</i> ATCC 12600				No Growth		

Storage Conditions

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

Shelf Life

3 years.

Related Products

Product No.	Product Name	Specification
CM108	Lactose Bile Fermentation Broth	250 g
CM108-01	Lactose Bile Fermentation Broth	1000g
GCM108	Lactose Bile Fermentation Broth	250 g
GCM108-1K	Lactose Bile Fermentation Broth	1000g
CM108-05	Lactose Bile Fermentation Broth - Single	10 mL×20
CM108-05S	Lactose Bile Fermentation Broth - Double	10 mL×20

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