

## Lactose Peptone Broth

**Product No.** CM122

### Intended Use

Used for the determination of *coliform* bacteria in drinking water and source water.(GB)

**Specification** 250 g

Ingredients	(g/L)
Peptone	10.0
Sodium Chloride	5.0
Beef Extract	3.0
Lactose	5.0
Bromocresol purple (pH 7.2-7.4)	0.016

### Additional Reagents

No

### Principle and Interpretation

Peptone and beef extract provide nitrogen source, minerals and other nutrients; lactose is fermentable sugar; sodium chloride maintains balanced osmotic pressure; 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 23.0 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 20minutes.

### Precautions

No

### Quality Control

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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

Microorganisms	Inoculum (CFU)	Method	Incubation	Growth (Productivity Ratio : PR)
<i>Escherichia coli</i> ATCC 25922	10-100	quantitative	36°C±1°C 24h±2h	Good Acid and gas production
<i>Citrobacter freundii</i> ATCC 43864				
<i>Salmonella typhimurium</i> ATCC 14028			36°C±1°C 18h±24h	Good No Acid and No gas production

### Storage Conditions

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

### Shelf Life

3 years.

### Related Products

Product No.	Product Name	Specification
CM122	Lactose Peptone Broth	250 g
<b>CM122-01</b>	Lactose Peptone Broth	1000g
<b>GCM122</b>	Lactose Peptone Broth	250 g
CM122-05	Lactose Peptone Broth-Single	10 mL×20
CM122-05S	Lactose Peptone Broth-Double	10 mL×20

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