

Preston Broth

Cat: RL100143

Specification: 5*500ml / 10*225ml

Storage: Store at 2-8°C, avoid light

Introduction:

I. Product use:

For selective growth of *Campylobacter jejuni*.

II. Inspection principle:

Peptone provides carbon and nitrogen sources, vitamins, and growth factors; Beef steep powder provides carbon sources, vitamins, and growth factors; Sodium chloride maintains the osmotic pressure of bacterial balance; Sodium pyruvate, sodium metabisulfite, and ferrous sulfate provide the metal ions required for bacterial growth. Polymyxin B, rifampicin, and trimethoprim inhibit the growth of other bacteria; Cycloheximide inhibits the growth of fungi.

III. Composition: g/L

Beef marinade powder 10.0g
 Peptone 10.0g
 Sodium chloride 5.0g
 Sodium pyruvate 0.25g
 Sodium metabisulfite 0.25g
 Ferrous sulfate 0.25g
 Polymyxin B 10mg
 Rifampicin 10mg
 Trimethoprim 10mg
 Cycloheximide 100mg
 Sterile lysed horse or sheep blood 50mL
 Purified water 1000mL
 Final pH 7.2±0.2

IV. Instructions for use: (for reference only)

Ready-to-use product: Unpacked and ready to use.

V. Quality Control:

The following quality control strains were inoculated and cultured under microaerobic conditions at 42±1°C for 24-48 hours. The observation results are shown in the following table:

Index	Quality control strain and number	Standard value	characteristic reaction
Growth rate	<i>Campylobacter jejuni</i> ATCC33291	>20 cfu on the improved CCD plate	grayish white colony
	<i>Staphylococcus aureus</i> ATCC6538		
	<i>Escherichia coli</i> ATCC25922		
Selective	<i>Saccharomyces cerevisiae</i> ATCC9763	<200cfu on Sabouraud	-
	<i>Staphylococcus aureus</i> ATCC6538	Dextrose Agar	-
	<i>Escherichia coli</i> ATCC25922	on TSA <200cfu	-

VI. Note:

Operate in a clean environment to avoid contamination of the culture medium.

VII. Waste disposal:

After testing, the contaminated items are placed under high-pressure sterilization at 121°C for 30 minutes.