

Bolton broth (containing sheep blood and antibiotics)

Cat: RL100102

Specification: 6*225ml

Storage: Store at 2-8°C, avoid light

Introduction:

I. Product use:

For selective growth culture of *Campylobacter jejuni*.

II. Inspection principle:

lactalbumin hydrolysates and animal tissue hydrolysates provided carbon and nitrogen sources; Yeast extract provides various vitamins; Sodium chloride maintains a balanced osmotic pressure; Sodium pyruvate and sodium metabisulfite can neutralize the toxic substances in the medium and enhance the air endurance of the medium. A-ketoglutaric acid provides growth factor and promotes the growth of *Campylobacter jejuni*. Sodium carbonate provides the most favorable acid-base environment for *Campylobacter jejuni*. Cefepazone and polymyxin B inhibited gram-negative bacteria; Vancomycin and trimethoprim inhibited gram-positive bacteria; Amphotericin B inhibits the growth of yeast and fungi.

III. Composition: g/L

Animal tissue hydrolysates: 10.0

Milk protein hydrolysate: 5.0

Yeast infusion powder: 5.0

Sodium chloride: 5.0

Sodium pyruvate: 0.5

Sodium metabisulfite: 0.5

Sodium carbonate: 0.6

A-ketoglutaric acid: 1.0

Cefoperazone sodium: 20mg

Amphoteric B: 10mg

Polycolistin B: 10mg

Vancomycin: 20mg

Trimethoprim: 20mg

Distilled water: 1000mL

Defibrillated sheep blood: 50mL

pH 7.4±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 at $42 \pm 1^\circ\text{C}$ for 24-48 hours, and the observation results are shown in the following table:

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

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.