

OXOID PRODUCT SPECIFICATION

BOLTON BROTH

BO1070S

Typical Formula

	grams per litre
Meat peptone	10.0
Lactalbumin hydrolysate	5.0
Yeast extract	5.0
Sodium chloride	5.0
Sodium pyruvate	0.5
α -ketoglutaric acid	1.0
Sodium metabisulphite	0.5
Sodium carbonate	0.6
Haemin	0.01

Additions:

Cefoperazone	20 mg
Trimethoprim	20 mg
Vancomycin	20 mg
Cycloheximide	50 mg
Lysed horse blood	50ml

Preparation

Suspend Bolton Broth (27.6g / litre) in de-ionised water. Sterilise at 121°C for 15 minutes. Cool and aseptically add cefoperazone, trimethoprim, vancomycin, cycloheximide and lysed horse blood. Mix well and aseptically dispense 225mls into final containers, sterile 250ml sirop bottles. Label each bottle and pack in units of 10 into labelled boxes.

Format

Ten sirop bottles with screw cap closure in a box.

Labels

Label gives details of product name, product code, recommended storage temperature, lot number and expiry date.

Physical Characteristics

pH	7.4 \pm 0.2
Colour	Dark red / Brown
Clarity	Clear
Fill weight	225.0g + 4.0g

Packaging and presentation:

General appearance of bottle and label should be satisfactory. Label data should be correct.

Sterility Test

Macroscopic examination should show no evidence of microbial growth after incubation at 20-24°C and 30-34°C for 5 days.

Microbiological Tests Using Optimum Inoculum Dilution

Results after microaerophilic incubation at 35-39°C for 18-24 hours, followed by 18-24 hours at 40-44°C.

Dilute and subculture broths containing *Campylobacter jejuni* onto CCDA Medium, PO0119A. Incubate plates in a microaerophilic atmosphere at 40-44°C for 36 – 48 hours. (for details refer to Oxoid Manual - Atmosphere Generation Systems).

Dilute and subculture broths containing *Escherichia coli* onto Tryptone Soya Agar. Incubate plates aerobically at 40-44°C for 36 – 48 hours.

Initial inoculum 10-100 colony forming units.

<u>Positive control</u>		
<i>Campylobacter jejuni</i>	ATCC® 29428	1-2 mm grey colonies

Initial inoculum between 10,000 and 100,000 colony forming units.

<u>Negative control</u>		
<i>Escherichia coli</i>	ATCC® 25922	No growth

Storage Conditions

Store away from light between 2 - 8°C.