

Technical Data sheet

BOLTON Broth Selective Supplement acc. ISO 10272-1

Ordering number: 1.00079.0010

BOLTON Broth Selective Supplement is a mixture of four different antibiotics in lyophilized form.

BOLTON Broth Selective Supplement is in accordance to ISO 10272-1 and FDA-BAM.

Mode of Action

Cefoperazone, vancomycin, cycloheximide and trimethoprim are the selective agents used to inhibit the accompanying gram-positive and gram-negative bacteria as well as yeasts and moulds.

Typical Composition

Substance	Gram per vial	Final concentration per liter
Vancomycin	0.010	0.02
Cefoperazone	0.010	0.02
Trimethoprim Lactate	0.010	0.02
Amphotericin B	0.005	0.01

Preparation

Dissolve the lyophilisate in the original vial by adding of 5 ml of a 50:50 mixture of sterile distilled water and ethanol. Mix gently. Take care to dissolve completely.

Add contents of a vial (5 ml) aseptically to 500 ml of sterile GranuCult™ BOLTON Broth (Base) acc. ISO 10272 (article number 1.00068.0500), cooled to 45-50 °C. Mix well.

Storage

Usable up to the expiry date when stored dry and tightly closed at +2 °C to +8 °C.

Quality Control

Bolton Broth Selective Supplement is tested in GranuCult™ BOLTON Broth (Base) acc. ISO 10272 (article number 1.00068.0500) in accordance with the current version of EN ISO 11133.

Function	Control strains	Incubation	Method of control	Expected results
Productivity	<i>Campylobacter coli</i> ATCC® 43478 + <i>Escherichia coli</i> ATCC® 25922 + <i>Proteus mirabilis</i> ATCC® 29906	4-6 h at 36-38 °C, afterwards 40-48 h at 40.5-42.5 °C microaerobic	Qualitative	>10 colonies on GranuCult™ mCCD Agar acc. ISO 10272, greyish colonies
	<i>Campylobacter jejuni</i> ATCC® 33291 + <i>Escherichia coli</i> ATCC® 25922 + <i>Proteus mirabilis</i> ATCC® 29906			
	<i>Campylobacter jejuni</i> ATCC® 29428 + <i>Escherichia coli</i> ATCC® 8739 + <i>Proteus mirabilis</i> ATCC® 29906			
Selectivity	<i>Escherichia coli</i> ATCC® 8739	4-6 h at 36-38 °C, afterwards 40-48 h at 40.5-42.5 °C microaerobic	Qualitative	No growth on Tryptic Soy Agar (TSA)
	<i>Escherichia coli</i> ATCC® 25922			
	<i>Proteus mirabilis</i> ATCC® 29906			

Please refer to the actual batch related Certificate of Analysis.

Literature

FDA-BAM (2001): Chapter No. 7: *Campylobacter*. U.S. Food and Drug Administration - Bacteriological Analytical Manual.

ISO International Standardisation Organisation. Microbiology of food, animal feed and water - Horizontal method for detection and enumeration of *Campylobacter* spp. - Part 1: Detection method. EN ISO 10272-1:2006.

ISO International Standardisation Organisation. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media. EN ISO 11133:2014.

Ordering Information

Product	Cat. No.	Pack size
Bolton Broth Selective Supplement acc. ISO 10272	1.00079.0010	10 vials
GranuCult™ BOLTON Broth (Base) acc. ISO 10272	1.00068.0500	500 g

Merck KGaA
Frankfurter Strasse 250 64293
Darmstadt, Germany Fax: +49
(0) 61 51 / 72-60 80

Find contact information for your
country at:
www.merckmillipore.com/offices

For Technical Service, please visit:
www.merckmillipore.com/techservice

For more information, visit

www.merckmillipore.com/biomonitoring