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BOLTON BROTH SELECTIVE SUPPLEMENT (SR0183)		

BOLTON BROTH SELECTIVE SUPPLEMENT

SR0183

Formula

Per vial (each vial is sufficient to supplement 500ml of medium)

Cefoperazone	10.0 mg
Trimethoprim	10.0 mg
Vancomycin	10.0 mg
Cyclohexamide	25.0 mg

Description

A freeze-dried selective supplement for the isolation of *Campylobacter species*.

Directions

Aseptically add 5ml of ethanol to one vial and mix gently to dissolve. Aseptically add the contents to 500ml of sterile Bolton Broth (CM 983) cooled to 50°C. Add 25ml laked horse blood (SR48). Mix well and distribute into sterile containers.

Physical Characteristics

White pellet
Sterility - passes test

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Microbiological Tests Using Optimum Inoculum Dilution

Tested with the addition of Bolton Broth (CM983) and 5% Laked Horse Blood (SR48)

Reactions after aerobic incubation at $42 \pm 2^{\circ}\text{C}$ for 48 ± 4 hours.

Subculture broths onto Blood-Free Campylobacter Agar CM739 + SR155 and incubate for further $42 \pm 2^{\circ}\text{C}$ for 48 ± 4 hours under microaerophilic conditions (for details refer to Oxoid Manual - Atmosphere Generation Systems)

<i>Campylobacter coli</i>	ATCC® 33559	0.5-3 mm grey colonies
<i>Campylobacter lari</i>	ATCC® 35221	0.5-3 mm grey colonies
<i>Enterococcus faecalis</i>	ATCC® 29212	No growth
<i>Pseudomonas aeruginosa</i>	ATCC® 25668	No growth
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	No growth
<i>Proteus mirabilis</i>	NCTC 10975	No growth
<i>Staphylococcus aureus</i>	ATCC® 25923	No growth
<i>Candida albicans</i>	ATCC® 10231	No growth
<i>Aspergillus flavus</i>	ATCC® 22547	No growth

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Testing performed in accordance with ISO11133:2014

Reactions after microaerophilic incubation at $37 \pm 2^\circ\text{C}$ for 5 hours followed by $41.5 \pm 2^\circ\text{C}$ for 44 ± 4 hours. Subculture broths onto Blood-Free Campylobacter Agar CM739 + SR155 and incubate for further $41.5 \pm 2^\circ\text{C}$ for 48 ± 4 hours under microaerophilic conditions (for details refer to Oxoid Manual - Atmosphere Generation Systems)


FOOD MICROBIOLOGY TABLE E

Mixed Cultures

Inoculate 20ml quantities of medium to achieve 10 to 100 colony-forming units/20ml (cfu/20ml) of *Campylobacter spp.* and $1\text{E}+04$ to $1\text{E}+05$ cfu of *Escherichia coli* and *Proteus mirabilis*. Incubate broths at $37 \pm 2^\circ\text{C}$ for 5 hours followed by $41.5 \pm 2^\circ\text{C}$ for 44 ± 4 hours. After incubation, subculture onto Blood-Free Campylobacter Agar (CM739 + SR155) and incubate plates under microaerophilic conditions at $41.5 \pm 2^\circ\text{C}$ for 48 hours.

<i>Campylobacter jejuni</i>	ATCC® 29428	WDCM00156	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter jejuni</i>	ATCC® 29428	WDCM00156	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter jejuni</i>	ATCC® 33291	WDCM00005	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter jejuni</i>	ATCC® 33291	WDCM00005	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter coli</i>	ATCC® 33291	WDCM00004	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter coli</i>	ATCC® 33291	WDCM00004	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth

A satisfactory result is represented by recovery of >100 cfu of *Campylobacter spp.* on Blood-Free Campylobacter Agar (CM739 + SR155).

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Pure Cultures

Inoculate 20ml quantities of medium to achieve 1E+04 to 1E+05 colony-forming units/20ml (cfu/20ml) of *Escherichia coli* and *Proteus mirabilis*. Incubate broths at 37 ± 2°C for 5 hours followed by 41.5 ± 2°C for 44 ± 4 hours. After incubation, subculture onto Blood-Free Campylobacter Agar (CM739 + SR155) and incubate plates under microaerophilic conditions at 41.5 ± 2°C for 48 hours.


<i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
<i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
<i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth

A satisfactory result is represented by no growth of *Escherichia coli* and *Proteus mirabilis* on Blood-Free Campylobacter Agar (CM739 + SR155).

Inoculate 20ml quantities of medium to achieve 1E+04 to 1E+05 colony-forming units/20ml (cfu/20ml) of *Escherichia coli* and *Proteus mirabilis*. Incubate broths at 37 ± 2°C for 5 hours followed by 41.5 ± 2°C for 44 ± 4 hours. After incubation, subculture onto Tryptone Soya Agar (CM0131) and incubate plates under microaerophilic conditions at 37 ± 2°C for 48 hours.

<i>Escherichia coli</i>	ATCC® 8739	WDCM00012	1-3mm cream colonies
<i>Escherichia coli</i>	ATCC® 25922	WDCM00013	1-3mm cream colonies
<i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	1-2mm straw, swarming colonies

A satisfactory result is represented by <100 cfu of *Escherichia coli* and <10 cfu of *Proteus mirabilis* on Tryptone Soya Agar (CM131).

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WATER MICROBIOLOGY TABLE F

Mixed Cultures

Inoculate 20ml quantities of medium to achieve 10 to 100 colony-forming units/20ml (cfu/20ml) of *Campylobacter spp.* and 1E+04 to 1E+05 cfu of *Escherichia coli* and *Proteus mirabilis*. Incubate broths at 37 ± 2°C for 44 ± 4 hours. After incubation, subculture onto Blood-Free Campylobacter Agar (CM739 + SR155) and incubate plates under microaerophilic conditions at 41.5 ± 2°C for 48 hours.

<i>Campylobacter jejuni</i>	ATCC® 29428	WDCM00156	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter jejuni</i>	ATCC® 29428	WDCM00156	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter jejuni</i>	ATCC® 33291	WDCM00005	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter jejuni</i>	ATCC® 33291	WDCM00005	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter coli</i>	ATCC® 33291	WDCM00004	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth
<i>Campylobacter coli</i>	ATCC® 33291	WDCM00004	0.5-3.0mm grey colonies
+ <i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
+ <i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth

A satisfactory result is represented by recovery of >100 cfu of *Campylobacter spp.* on Blood-Free Campylobacter Agar (CM739 + SR155).

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Pure Cultures

Inoculate 20ml quantities of medium to achieve 1E+04 to 1E+05 colony-forming units/20ml (cfu/20ml) of *Escherichia coli* and *Proteus mirabilis*. Incubate broths at 37 ± 2°C for 44 ± 4 hours. After incubation, subculture onto Blood-Free Campylobacter Agar (CM739 + SR155) and incubate plates under microaerophilic conditions at 41.5 ± 2°C for 48 hours.


<i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
<i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
<i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	No growth

A satisfactory result is represented by no growth of *Escherichia coli* and *Proteus mirabilis* on Blood-Free Campylobacter Agar (CM739 + SR155).

Inoculate 20ml quantities of medium to achieve 1E+04 to 1E+05 colony-forming units/20ml (cfu/20ml) of *Escherichia coli* and *Proteus mirabilis*. Incubate broths at 37 ± 2°C for 44 ± 4 hours. After incubation, subculture onto Tryptone Soya Agar (CM0131) and incubate plates under microaerophilic conditions at 37 ± 2°C for 48 hours.

<i>Escherichia coli</i>	ATCC® 8739	WDCM00012	1-3mm cream colonies
<i>Escherichia coli</i>	ATCC® 25922	WDCM00013	1-3mm cream colonies
<i>Proteus mirabilis</i>	ATCC® 29906	WDCM00023	1-2mm straw, swarming colonies

A satisfactory result is represented by <100 cfu of *Escherichia coli* and <10 cfu of *Proteus mirabilis* on Tryptone Soya Agar (CM131).

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Creation of ISO11133 section	Update to include testing of ISO11133:2014	Change control	BT-CC-1208