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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
EC BROTH WITH MUG CM0979		

EC BROTH WITH MUG

CM0979

Typical Formula*

Tryptone	grams per litre	20.0
Lactose		5.0
Bile salts No.3		1.5
Di-potassium phosphate		4.0
Mono-potassium phosphate		1.5
Sodium chloride		5.0
4-methylumbelliferyl- β -D-glucuronide (MUG)		0.05

* adjusted as required to meet performance standards

Directions

Dissolve 37.0g in 1 litre of distilled water. Mix well and distribute into final containers with Durham tubes. Sterilize by autoclaving at 121°C for 15 minutes.

Physical Characteristics

White, off white to light straw, free-flowing powder

Colour on reconstitution - straw 2-3

Moisture level - less than or equal to 7%

pH 6.9 \pm 0.2 at 25°C

Clarity - clear

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 45.5 \pm 2.0°C for 48 hours

Medium is challenged with 1E+05 to 1E+06 colony-forming units

<i>Escherichia coli</i>	ATCC® 25922	Turbid growth, gas and fluorescence
<i>Escherichia coli</i>	ATCC® 8739	Turbid growth, gas and fluorescence
<i>Enterobacter aerogenes</i>	ATCC® 13048	No growth
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	No growth
<i>Bacillus subtilis</i>	ATCC® 6633	No growth
<i>Staphylococcus aureus</i>	ATCC® 25923	No growth

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After incubation add 1ml of 1M NaOH to each 10ml broth, examine tubes using long wave UV light (365nm). Tubes containing *Escherichia coli* should exhibit a blue fluorescence.

Testing performed in accordance with ISO11133:2014

Reactions after incubation at 44 ± 0.5°C for 48 hours

Medium is challenged with 10-100 colony-forming units

<i>Escherichia coli</i>	NCTC13167	WDCM00179	Turbid growth and fluorescence
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After incubation add 1ml of 1M NaOH to each 10ml broth, examine tubes using long wave UV light (365nm). Tubes containing *Escherichia coli* should exhibit a blue fluorescence.

A satisfactory result is represented by visible growth, gas where appropriate and fluorescence.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Physical characteristics	Update appearance to include a wider range of powder colour	Change control	MOC-2022-0857