	Document Owner Department: QC	MBD-BT-SPEC-0239
		Page 1 of 3
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

	Document Owner Department: QC	MBD-BT-SPEC-0239 Page 2 of 3
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
EC BROTH WITH MUG CM0979		

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.

	Document Owner Department: QC	MBD-BT-SPEC-0239
		Page 3 of 3
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
EC BROTH WITH MUG CM0979		

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