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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
LAURYL TRYPTOSE BROTH (CM0451)		

LAURYL TRYPTOSE BROTH

CM0451

Formula

Tryptose	grams per litre	20.0
Lactose		5.0
Sodium chloride		5.0
Di-potassium hydrogen phosphate		2.75
Potassium dihydrogen phosphate		2.75
Sodium lauryl sulphate		0.1

Directions

Add 35.6g to 1 litre of distilled water and distribute into final containers with fermentation tubes (Durham). Sterilize by autoclaving at 121°C for 15 minutes.

Physical Characteristics

Straw, free flowing powder
 Colour on reconstitution - straw 2-3
 Moisture level - less than or equal to 7%
 pH - 6.8 ± 0.2 at 25°C
 Clarity - clear (single and double strength broth)

Bacteriological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 30 ± 2°C for 24 ± 2 hours

Medium is challenged with 10-100 colony forming units

Enterobacter aerogenes ATCC®13048 Turbid growth and gas

A satisfactory result is represented by visible growth and gas.

Reactions after incubation at 37 ± 2°C for 24 ± 2 hours

Medium is challenged with 10-100 colony forming units

Enterobacter aerogenes ATCC®13048 Turbid growth and gas

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A satisfactory result is represented by visible growth and gas.

Reactions after incubation at 44 ± 2°C for 24 ± 2 hours

Medium is challenged with 1E+04 to 1E+06 colony forming units

E. coli confirmation test

<i>Escherichia coli</i>	ATCC®25922	Turbid growth and gas
<i>Escherichia coli</i>	ATCC®8739	Turbid growth and gas
<i>Enterobacter aerogenes</i>	ATCC®13048	No growth to slight turbid growth, no gas

A satisfactory result for *Escherichia coli* is represented by visible growth and gas.

Reactions after incubation at 30 ± 2°C for 48 ± 2 hours

Medium is challenged with 1E+04 to 1E+06 colony forming units

<i>Staphylococcus aureus</i>	ATCC®25923	No growth
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Negative strains are inhibited.

Reactions after incubation at 37 ± 2°C for 48 ± 2 hours

Medium is challenged with 1E+04 to 1E+06 colony forming units

<i>Staphylococcus aureus</i>	ATCC®25923	No growth
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Negative strains are inhibited.

Testing performed in accordance with ISO11133:2014

Reactions after incubation at 30 ± 2°C for 24 ± 2 hours

Medium is challenged with 10-100 colony forming units

<i>Escherichia coli</i>	ATCC®25922	WDCM00013	Turbid growth and gas (indole positive)
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	Turbid growth and gas
<i>Citrobacter freundii</i>	ATCC®43864	WDCM00006	Turbid growth and gas

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A satisfactory result is represented by visible growth.

After incubation add a few drops of Kovacs reagent to the *Escherichia coli* ATCC®25922 WDCM00013 tube to assess indole production. A satisfactory result is represented by an indole positive reaction (red layer after the addition of Kovacs reagent).

Reactions after incubation at 37 ± 2°C for 24 ± 2 hours

Medium is challenged with 10-100 colony forming units

<i>Escherichia coli</i>	ATCC®25922	WDCM00013	Turbid growth and gas (indole positive)
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	Turbid growth and gas

A satisfactory result is represented by visible growth.

After incubation add a few drops of Kovacs reagent to the *Escherichia coli* ATCC®25922 WDCM00013 tube to assess indole production. A satisfactory result is represented by an indole positive reaction (red layer after the addition of Kovacs reagent).

Reactions after incubation at 30 ± 2°C for 48 ± 2 hours

Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Enterococcus faecalis</i>	ATCC®29212	WDCM00087	No growth
<i>Enterococcus faecalis</i>	ATCC®19433	WDCM00009	No growth

Negative strains are inhibited.

Reactions after incubation at 37 ± 2°C for 48 ± 2 hours

Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Enterococcus faecalis</i>	ATCC®29212	WDCM00087	No growth
<i>Enterococcus faecalis</i>	ATCC®19433	WDCM00009	No growth

Negative strains are inhibited.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Reactions after incubation at $44 \pm 2^{\circ}\text{C}$ for 24 ± 2 hours	Remove <i>Citrobacter freundii</i> ATCC®43864	Change control	MOC-2024-1997