OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

LISTERIA SELECTIVE AGAR BASE (OXFORD FORMULATION) CM0856

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Typical Formula*

	grams per litre
Columbia Blood Agar Base	39.0
Aesculin	1.0
Ferric ammonium citrate	0.5
Lithium chloride	15.0

* adjusted as required to meet performance standards

Directions

Suspend 27.75g in 500ml of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and aseptically add the contents of 1 vial of Listeria Selective Supplement (SR0206E or SR0140E) reconstituted as directed. Mix well and pour into sterile Petri dishes.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - pale green
Moisture level - less than or equal to 7%
pH - 7.0 ± 0.2 at 25°C
Clarity - clear
Gel strength - firm, comparable to 10.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Columbia Blood Agar Base enriched with 5% v/v horse blood

Reactions after incubation at 37°C for 48 hours

Tested with the addition of Listeria Selective Supplement (Oxford Formulation) SR0140

Medium is challenged with 10-100 colony-forming units

Listeria monocytogenes	ATCC®7644	0.25-1.0mm brown/black dimpled colonies and halo
Listeria monocytogenes	ATCC®13932	0.25-1.0mm brown/black dimpled colonies and halo

A satisfactory result is represented by recovery of positive strains equal to or greater than 50% of the control medium.

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Medium is challenged with 10-100 colony-forming units

Staphylococcus aureus	ATCC®25923	No growth or pinpoint-1.5mm yellow colonies

Staphylococcus aureus ATCC®25923 is inhibited or shall produce a negative diagnostic reaction from an inoculum of 10-100 cfu

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

Enterococcus faecalis	ATCC®29212	No growth
Enterococcus faecalis	ATCC®19433	No growth
Escherichia coli	ATCC®25922	No growth
Escherichia coli	ATCC®8739	No growth
Candida albicans	ATCC®10231	No growth or minimal growth

Negative strains are inhibited. *Candida albicans* ATCC®10231 shall be inhibited or produce pinpoint colourless colonies with no blackening of the media.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Microbiological characteristics	Change to *Staphylococcus aureus* growth characteristics	Change control	MOC-2022-0180