

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION
LISTERIA ENRICHMENT BROTH BASE (UVM FORMULATION) CM0863
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CM0863
Typical Formula*

grams per litre

Proteose peptone	5.0
Tryptone	5.0
'Lab-Lemco' powder	5.0
Yeast extract	5.0
Sodium chloride	20.0
Di-sodium hydrogen phosphate	12.0
Potassium dihydrogen phosphate	1.35
Aesculin	1.0

* adjusted as required to meet performance standards

Directions

Dissolve 27.2g in 500ml of distilled water. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and aseptically add the contents of 1 vial of either Listeria Primary Selective Enrichment Supplement (UVM I) (SR0142E) or Listeria Secondary Selective Enrichment Supplement (UVM II) (SR0143E) reconstituted as directed. Mix well and aseptically dispense into sterile containers. Prepare both UVM I and UVM II broths for testing.

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution - straw 2-3
 Moisture level - less than or equal to 7%
 pH - 7.4 ± 0.2 at 25°C
 Clarity - clear

Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Listeria Oxford Medium or Columbia Blood Agar Base enriched with 5% v/v horse blood, where appropriate

Tested with the addition of Listeria Selective Enrichment Supplement SR0142 (UVM I) and Listeria Secondary Selective Enrichment Supplement (UVM II) SR0143

Inoculate 10ml quantities of UVM I medium to achieve 1-5 colony-forming units/ml (cfu/ml) of *Listeria monocytogenes* and 10-100 cfu/ml for the other test organisms. Incubate broths at 30°C for 24 hours. Subculture 0.1ml of each organism into 10ml quantities of UVM II medium. Incubate broths at 30°C for 24 hours. Subculture on to Listeria Oxford Medium (CM0856 and SR0140) and incubate plates at 30°C for 48 hours.

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<i>Listeria monocytogenes</i>	NCTC11994	0.25-1mm brown/black dimpled colonies and halo
<i>Listeria monocytogenes</i>	ATCC® 35152	0.25-1mm brown/black dimpled colonies and halo
<i>Staphylococcus aureus</i>	ATCC® 25923	No growth or pinpoint-0.5mm yellow colonies
<i>Escherichia coli</i>	ATCC® 25922	No growth
<i>Enterococcus faecalis</i>	ATCC® 29212	No growth

A satisfactory result is represented by recovery of positive strains equal to or greater than a 3 log(10) increase. Negative strains are inhibited or shall produce a negative diagnostic reaction.

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Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Update to new document format and correction of typographical/minor errors. Addition of Control Media and Result Criteria.	Change control	BT-CC-1918