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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
LISTERIA ENRICHMENT BROTH BASE CM0862		

LISTERIA ENRICHMENT BROTH BASE CM0862

Typical Formula*

Tryptone Soya Broth	grams per litre	30.0
Yeast extract		6.0

* adjusted as required to meet performance standards

Directions

Dissolve 18g in 500ml of distilled water. Add the contents of 1 vial of Listeria Selective Enrichment Supplement (SR0141E) reconstituted as directed**. Mix well and distribute into final containers. Sterilize by autoclaving at 121°C for 15 minutes.

**Supplement may be aseptically added post-sterilization.

Physical Characteristics

Straw, free-flowing powder

Colour on reconstitution - straw 3-4

Moisture level - less than 7%

pH 7.3 ± 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 SR0141

Reactions after incubation at 30°C for 24 hours

Inoculate 10ml quantities of medium to achieve 1-5 colony-forming units/ml (cfu/ml) of *Listeria* spp. Incubate broths at 30 ± 2°C for 24 hours. Subculture onto Listeria Oxford Medium (CM0856 and SR0140) and incubate plates at 37°C for 48 hours. In addition, subculture *Listeria* strains onto Columbia Blood Agar Base (CM0331) enriched with 5% v/v Horse Blood (SR0050) and incubate plates at 37°C for 24 hours. Remove one isolated colony and incubate at 25°C for 8-24 hours in unsupplemented medium.

<i>Listeria monocytogenes</i>	ATCC® 7644	0.25-1mm brown/black dimpled colonies and halo
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<i>Listeria monocytogenes</i>	ATCC® 13932	0.25-1mm brown/black dimpled colonies and halo
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A satisfactory result is represented by recovery of positive strains equal to or greater than a 3 log(10) increase.

After incubation at 30 ± 2°C for 48 hours *Listeria* species shall exhibit turbid growth.

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

Inoculate 10ml quantities of medium to achieve 10-100 cfu/ml. Incubate broths at 30 ± 2°C for 48 hours.

<i>Enterococcus faecalis</i>	ATCC® 29212	No growth
<i>Escherichia coli</i>	ATCC® 25922	No growth

Negative strains are inhibited.

Tested using unsupplemented medium

Reactions after incubation at 25 ± 2°C for 21 ± 3 hours

Inoculate 10ml quantities of medium to achieve 1E+04 to 1E+06 colony-forming units

<i>Listeria monocytogenes</i>	ATCC® 7644	Turbid growth
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For unsupplemented medium, a satisfactory result is represented by turbid growth from one isolated colony removed from a Columbia blood plate.

Testing performed in accordance with ISO11133:2014

Reactions after incubation at 25 ± 2°C for 21 ± 3 hours

For each strain, remove one colony from Columbia Blood Agar Base (CM0331) enriched with 5% v/v Horse Blood (SR0050) and incubate at 25 ± 2°C for 8-24 hours in unsupplemented medium.

<i>Listeria monocytogenes</i>	ATCC® 13932	WDCM00021	Turbid growth
<i>Listeria monocytogenes</i>	ATCC® 35152	WDCM00109	Turbid growth

For unsupplemented medium, a satisfactory result is represented by turbid growth from one isolated colony removed from a Columbia blood plate.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Creation of ISO11133 section	Update to include testing of ISO11133:2014	Change control	BT-CC-1278