

Distribution: Central File

Date: 06/05/11

Supersedes: 23/12/10

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BUFFERED LISTERIA ENRICHMENT BROTH BASE

CM0897

Typical Formula*

| | | |
|-------------------------------------|-----------------|------|
| Tryptone Soya Broth | grams per litre | 30.0 |
| Yeast extract | | 6.0 |
| Potassium dihydrogen orthophosphate | | 1.35 |
| Di-sodium hydrogen orthophosphate | | 9.60 |

* adjusted as required to meet performance standards

Directions

Dissolve 23.5g 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 in volumes as required. 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°C for 24 hours. Subculture onto Listeria Oxford Medium (CM0856 and SR0140) and incubate plates at 37°C for 48 hours.

| | | |
|-------------------------------|-------------|--|
| <i>Listeria monocytogenes</i> | ATCC® 7644 | 0.25-1.0mm brown/black dimpled colonies and halo |
| <i>Listeria monocytogenes</i> | 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 a 3 log (10) increase.

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

Reactions after incubation at 30°C for 48 hours

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

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

Negative strains are inhibited.