

BUFFERED LISTERIA ENRICHMENT BROTH

Selective enrichment medium for the detection of *Listeria spp.* in food when prepared with BUFFERED LISTERIA ENRICHMENT BROTH base and MODIFIED LISTERIA SELECTIVE ENRICHMENT SUPPLEMENT

TYPICAL FORMULA (g/l)

Tryptone soya broth	30.0
Yeast Extract	6.0
Potassium di-hydrogen orthophosphate	1.35
Disodium hydrogen orthophosphate	9.6

Final pH = 7.3 ± 0.2 at 25°C.

DIRECTIONS

Add 23.5 g of powder to 500 mL of distilled or deionized water and mix well to dissolve. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45-50°C and aseptically add the contents of 1 vial of MODIFIED LISTERIA SELECTIVE ENRICHMENT SUPPLEMENT (code 81044). Mix well and aseptically distribute into sterile containers in volumes as required.

DESCRIPTION

BUFFERED LISTERIA ENRICHMENT BROTH is a selective enrichment medium for the detection of *Listeria spp.* in food. The addition of potassium di-hydrogen orthophosphate and disodium hydrogen orthophosphate increase the buffering capacity of the medium.

TECHNIQUE

- Add 25 g or 25 mL samples to 225 mL of Buffered Listeria Enrichment Broth. Homogenise if required.
- Incubate at 30°C for 48 hours.
- Subculture from the Buffered Listeria Enrichment Broth onto Listeria Palcam Agar plates (code 10041) or Listeria Esculin Agar plates (code 11230) after 24 and 48 hours by:
 - Direct plating onto Listeria Palcam Agar plates or Listeria Esculin Agar plates.
 - Adding 1 mL of the Buffered Listeria Enrichment Broth to 9 mL of 0.5% KOH, vortex mixing, and plating onto Listeria Palcam Agar plates or Listeria Esculin Agar plates.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: Straw coloured.

Prepared medium

Appearance: slightly opalescent with no significant precipitate.

Colour: Straw coloured.

Incubation conditions: 30±1°C for 48 hours.

Positive controls:
<i>Listeria monocytogenes</i> ATCC 35152
Negative control:
<i>Enterococcus faecalis</i> ATCC 29212

STORAGE

The powder is very hygroscopic: store the powder at 10-30°C, in a dry environment, in its original container tightly closed away from bright light. When stored as directed the medium will remain stable until the expiry date printed on the label. Store prepared containers at 2-8°C.

REFERENCES

- Lovett J., Francis D.W. and Hunt J.M. (1987) *J. Food Prot.* 50. 188-192.
- Curtis G.D.W., Nichols W.W. and Falla T.J. (1989) *Lett. Appl. Micro.* 8. 169-172.

PACKAGING

Code 610324 BUFFERED LISTERIA ENRICHMENT BROTH (10.6 l).....	500 g
Code 620324 BUFFERED LISTERIA ENRICHMENT BROTH (2.1 l).....	100 g
Code 81044 MODIFIED LISTERIA SELECTIVE ENRICHMENT SUPPLEMENT.....	10 PV



Liofilchem s.r.l Bacteriology Products

Via Scozia-Zona industriale - 64026 Roseto degli Abruzzi Tel. +39.085.8930745 - Fax +39.085.8930330
Web site: <http://www.liofilchem.net> E-mail: liofilchem@liofilchem.net