



Listeria Enrichment Broth (Twin Pack)

M569

Intended Use:

Recommended for selective enrichment of *Listeria monocytogenes* from clinical specimens.

Composition**

Ingredients	Gms / Litre
Part A	-
Tryptone	10.000
Peptone	10.000
Dextrose (Glucose)	1.000
Sodium chloride	5.000
Thiaminium dichloride	0.005
Acridine hydrochloride (Trypaflavin)	0.010
Part B	-
Potassium thiocyanate	37.500
Final pH (at 25°C)	7.4±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 26 grams of Part A and 37.5 grams of Part B in 1000 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Listeria Enrichment Broth was proposed by Feindt (1) for the cultivation and isolation of *Listeria* species from clinical and non-clinical specimens. Obiger and Schonberg (2) reported the superiority of this media to yield *Listeria* from mix-infected specimens. Tryptone, Peptone provides essential nutrients. Thiaminium dichloride is the vitamin B source added to improve the growth of *Listeria*. Thiocyanate inhibits gram-negative bacteria (3, 4). Listeria Enrichment Broth can be further improved by adding Colimycin alongwith Nalidixic acid (5). The mix infected specimen is added directly to Listeria Enrichment Broth.

type of specimen

mo m t n mft oe ppe t n mft

Specimen Collection and Handling

ps mo m t n mft gpmmp sp s f f io rvft gps i bfm ofot t fs ft cm tife hv efm oft

ps gpe t n mft gpmmp sp s f f io rvft gps t n mf pmmf po oe sp ft oh t fs hv efm oft

After use contaminated material must be sterilized by autoclaving before discarding

mhmf mc O d tshnmr

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

1. Some organism may show poor growth due to nutritional variation.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder White to cream homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of medium (2.6% w/v Part A + 3.75% w/v Part B) at 25°C. pH : 7.4±0.2

pH

7.20-7.60

Cultural Response

Cultural characteristics observed in presence of 10% Carbon dioxide (CO₂) after an incubation at 35-37°C for 48 hours.

Organism	Inoculum (CFU)	Growth
<i>Enterococcus faecalis</i> ATCC 29212	50-100	none-poor
<i>Escherichia coli</i> ATCC 25922	≥10 ⁴	inhibited
<i>Listeria innocua</i> ATCC 33090	50-100	luxuriant
<i>Listeria ivanovii</i> ATCC 19119	50-100	luxuriant
<i>Listeria monocytogenes</i> ATCC 19112	50-100	luxuriant
<i>Listeria monocytogenes</i> ATCC 19118	50-100	luxuriant

Reference

1. Feindt E., 1972, Inaug. Diss., Würzburg.
2. Obiger G. and Schonberg A., 1973, Fleischwirtschaft, 10:1450.
3. Lebnert C., 1964, Arch. Exp. Vet. Med., 18:891 and 1247.
4. Beerens H. and Tahon-Castel M.M., 1966, Ann. Inst. Pasteur, 111:90.
5. Grey M.L. et al, 1948, J. Bact., 55:471.

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