

Technical Data

Listeria Enrichment Broth (Twin Pack)

M569

Listeria Enrichment Broth is used for selective enrichment of *Listeria* species from clinical specimens.

Composition**

Ingredients	Gms / Litre
Part A	=
Casein enzymic hydrolysate	10.000
Peptic digest of animal tissue	10.000
Dextrose	1.000
Sodium chloride	5.000
Thiaminium dichloride	0.005
Acriflavin 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 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 mixinfected specimens.

Casein enzymic hydrolysate, peptic digest of animal tissue 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.

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

pН

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.

Cultural Response

Organism	Inoculum (CFU)	Growth
Enterococcus faecalis ATC 29212	CC 50-100	none-poor
Escherichia coli ATCC 25922	>=103	inhibited

HiMedia Laboratories Technical Data

Listeria innocua ATCC 33090	50-100	luxuriant
Listeria ivanovii ATCC 19119	50-100	luxuriant
Listeria monocytogenes	50-100	luxuriant
ATCC 19112 Listeria monocytogenes ATCC 19118	50-100	luxuriant

Storage and Shelf Life

Store dehydrated powder and prepared medium at 2-8°C in tightly closed container. Use before expiry period on the label.

Reference

- 1.Feindt E., 1972, Inuug. 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.

Revision: 2 / 2015

CE

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia[™] publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia[™] Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.