

MOELLER DECARBOXYLASE BROTH W/ORNITHINE (5 ML)

INTENDED USE:

Moeller Decarboxylase media are used in the biochemical differentiation of gram-negative enteric bacilli based on the production of ornithine decarboxylase.

PRINCIPLE AND INTERPRETATION:

Moeller Decarboxylase basal medium consists of peptone and beef extract to supply the nitrogenous nutrients necessary to support bacterial growth. Pyridoxal is an enzyme co-factor for the amino acid decarboxylase. Dextrose is a fermentable carbohydrate. Bromocresol purple and cresol red are pH indicators. The amino acids lysine and ornithine are added to the basal medium to detect the production of the enzyme specific for these substrates.

COMPOSITION:

Ingredients	Gr/Liter
Peptic digest of animal tissue	5 gr
Beef extract	5 gr
Dextrose	0,005 gr
Bromocresol purple	0,01 gr
Cresol red	0,005 gr
Pyridoxal	0,005 gr
L-Ornithine hydrochloride	10 gr

***Formula adjusted, standardized to suit performance parameters

pH: 6,0 ± 0,2

PRECAUTIONS:

For professional use only. Do not use tubes if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

TEST PROCEDURE:

Incubation at a temperature of 35±2°C and observed after 96 hours.

QUALITY CONTROL:

1.Sterility Control:

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

2.Physical/Chemical Control

pH: 6,0 ± 0,2

Apperance: Purple coloured

3.Microbiological Control: Incubation at a temperature of 35±2°C and observed after 96 hours.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Enterobacter cloacae ATCC 43560	10-100	Good	Positive reaction , (alkaline, purple or red)
Klebsiella pneumoniae ATCC 4352	10-100	Good	Negative reaction, (acid, yellow)

LIMITATIONS OF THE PROCEDURE:

For identification, organisms must be in pure culture. Morphological, biochemical, and/or serological tests should be performed for final identification. Consult appropriate texts for detailed information and recommended procedures.

STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2 - 12°C. Use before expiry date on the label..Do not use beyond stated expiry date.

DISPOSAL:

Incubated medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected tube should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

PACKAGING:

Katalog Number: 01062

Content/Packaging: 50 Tubes/Box

REFERENCES:

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2. MacFaddin, J.F. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. I. Williams & Wilkins, Baltimore.
3. Forbes, B.A., D.F. Sahm, and A.S. Weissfeld. 2002. Bailey & Scott's diagnostic microbiology, 11th ed. Mosby, Inc., St. Louis.
4. Farmer, J.J., III. 1999. Enterobacteriaceae: introduction and identification, p. 442-458. In P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, and R.H. Tenover (ed.), Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.
5. MacFaddin, J.F. 2000. Biochemical tests for identification of medical bacteria, 3rd ed. Lippincott Williams & Wilkins, Baltimore.
6. Murray, P.R., E.J. Baron, J.H. Jorgensen, M.A. Pfaller, and R.H. Tenover (ed.) 2003. Manual of clinical microbiology, 8th ed. American Society for Microbiology, Washington, D.C.
7. Holt, J.G., N.R. Krieg, P.H.A. Sneath, J.T. Staley, and S.T. Williams (ed.). 1994. Bergey's Manual™ of determinative bacteriology, 9th ed. Williams & Wilkins, Baltimore.
8. Yabuuchi, E., K. Yamanaka, and A. Ohya. 1981. Evaluation of 36 Minitek tests and a new approach for identification of nonfermenters. J. Clin. Microbiol. 13:572-587.
9. Westbrook, G.L., C.M. O'Hara, S.B. Roman, and J.M. Miller. 2000. Incidence and identification of Klebsiella planticola in clinical isolates with emphasis on newborns. J. Clin. Microbiol. 38:1495-1497.



Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature Limitation



Do not reuse



Contains sufficient for <n> tests



Look at user manual



Manufacturer