

TECHNICAL SHEET

PP010	EMB Agar, Levine Plate		
Formula			
Ingredients:	gms/lit.		
Peptone	10.00		
Dipotassium phosphate	2.00		
Lactose	10.00		
Eosin -Y	0.40		
Methylene blue	0.065		
Agar	15.00		
Final pH (at 25°C): 7.1± 0.2			
Directions:			
Label the ready to use plate (PP010). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.			
Principle:			
Peptone serves as source of carbon, nitrogen, long chain amino acids, vitamins and other essential growth nutrients. Lactose serves as the source of energy by being the fermentable carbohydrate. Eosin-Y and methylene blue serves as differential indicators. Eosin Y and methylene blue make the medium slightly selective and inhibit certain gram-positive bacteria. Phosphate buffers the medium. Some strains of Salmonella and Shigella species do not grow in the presence of eosin and methylene blue. Inoculated plates should be incubated, protected from light. However standard procedures should be followed to obtain isolated colonies. Confirmatory tests should be further carried out for identification of isolated colonies.			
(I) QC Tests			
pH:	7.1 ± 0.2		
Color:	Reddish purple coloured medium with greenish cast.		
Appearance:	Sterile EMB Agar, Levine in 85mm disposable plates.		
(II) Sterility test			
Passes release criteria			
(III) Q.C. Test Microbiological			
Cultural characteristics observed after incubation at 35-37°C for 24-48 hours.			
MICROORGANISM (ATCC)	GROWTH	GROWTH (22-28°C)	COLOUR OF COLONY
Escherichia coli 25922	luxuriant	-	purple with black Centre and green metallic sheen
Staphylococcus aureus 25923	None-poor	-	colourless
S. serotype typhimurium 14028	luxuriant	-	colourless
Enterobacter aerogenes 13048	Good	-	pink, red
Saccharomyces cerevisiae 9763	-	None-poor	cream
Pseudomonas aeruginosa 27853	luxuriant	-	colorless
Candida albicans 10231	-	Good-luxuriant	colorless

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Precautions :	1. In Vitro diagnostic use only. 2. Read the label before opening the container
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use:	For isolation, enumeration and differentiation of members of Enterobacteriaceae.
Storage:	Store between 2-8°C. away from direct light. Use before expiry date on the label.
Packing:	20/50 disposable plates.

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 BIOMARKLABORATORIES publications.

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