

TECHNICAL SHEET

PP009	EMB Agar Plate	
Formula		
Ingredients:	gms/lit.	
Peptic digest of animal tissue	10.00	
Dipotassium phosphate	2.00	
Lactose	5.00	
Sucrose	5.00	
Eosin-Y	0.40	
Methylene blue	0.065	
Agar	13.50	
Final pH (at 25°C): 7.2 ± 0.2		
Directions:		
Label the ready to use plate (PP009). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.		
Principle:		
Peptic digest of animal tissue serves as source of carbon, nitrogen, and other essential growth nutrients. Lactose and sucrose are the sources of energy by being fermentable carbohydrates. Eosin-Y and methylene blue serve as differential indicators. Phosphate buffers the medium. Methylene blue and Eosin-Y inhibit gram-positive bacteria to a limited degree. The test samples can be directly streaked on the medium plates. Inoculated plates should be incubated, protected from light. However standard procedures should be followed to obtain isolated colonies. A non-selective medium should be inoculated in conjunction with EMB Agar. Confirmatory tests should be further carried out for identification of isolated colonies.		
(I) QC Tests		
pH:	7.2 ± 0.2	
Color:	Reddish purple coloured medium with greenish cast.	
Appearance:	Sterile EMB Agar 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 18-24 hours.		
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY
Escherichia coli 25922	luxuriant	purple with black Centre and green metallic sheen
Staphylococcus aureus 25923	inhibited	-
S. serotype typhimurium 14028	luxuriant	colourless
Enterobacter aerogenes 13048	good	pink, without sheen
Klebsiella pneumoniae 13883	good	pink, mucoid
Proteus mirabilis 25933	luxuriant	colourless

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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 differential isolation of gram-negative enteric bacilli from clinical and non-clinical specimens.
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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