

BW180	EMB AGAR, LEVINE					
Formula						
Ingredients :			gms/lit.			
Peptic digest of animal tissue			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 :						
Suspend 37.5 gms in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. AVOID OVERHEATING. Cool to 50°C and shake the medium in order to oxidize the methylene blue (i.e. restores its blue color) and to suspend the precipitate which is an essential part of the medium. Precaution: Store the medium away from light to avoid photo-oxidation.						
Principle :						
Peptic digest of animal tissue is the source of nitrogen lactose is the source of carbohydrates. Eosin - Y and methylene blue make the medium slightly selective and inhibit certain gram- positive bacteria. These dyes differentiate between lactose fermenters and nonfermenters. Agar acts as the solidifying agent.						
QC Tests – (I) Dehydrated Medium						
Colour :		Light pink to Light purple				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.1 ± 0.2				
Colour (post autoclaving/heating) :		Reddish purple with greenish cast & finely dispersed precipitate.				
Clarity (post autoclaving/heating) :		Slightly opalescent gel				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 24 – 48 hrs. at 35 - 37°C.						
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY		
Escherichia coli (25922)		Luxuriant		Blue-black with metallic sheen		
Pseudomonas aeruginosa (27853)		Luxuriant		Colourless		
Salmonella typhimurium (14028)		Luxuriant		Colourless		
*Candida albicans (10231)		Good-luxuriant		Colourless		
Enterobacter aerogenes (13048)		Good		Pink-red		
Staphylococcus aureus (25923)		None – poor		Colourless		
Saccharomyces cerevisiae (9763)		None – poor		Cream		
Streptococcus faecalis (29212)		Inhibited		--		
Key : * = incubations in 10% carbon-dioxide.						
Precautions :		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
		3. Store the medium away from light to avoid photooxidation.				
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. It is recommended by BIS as per specification IS: 5461:1969 and IS 5887:1976, reaffirmed 1986.				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
BW180		37.5 g/l	13.333L	7.1 ± 0.2	Nil	121°C / 15 minutes

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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