

B180	EMB AGAR, LEVINE				
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 :					
Suspend 37.46 grams in 1000 ml distilled water. Heat to boiling 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. restore its blue colour) and to suspend the precipitate, which is an essential part of the medium.					
Precaution: Store the medium away from light to avoid photooxidation.					
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 serve as differential indicators. Phosphate buffers the medium.					
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		
	Escherichia coli (NCTC9002))	Luxuriant	Blue-black with metallic sheen		
	Pseudomonas aeruginosa (27853)	Luxuriant	Colourless		
	Pseudomonas aeruginosa (9027)	Luxuriant	Colourless		
	Salmonella typhimurium (14028)	Luxuriant	Colourless		
	*Candida albicans (10231)	Luxuriant	Colourless		
	Enterobacter aerogenes (13048)	Good	Pink-red		
	Staphylococcus aureus (25923)	None - poor	Colourless		
	Saccharomyces cerevisiae (9763)	None - poor	Cream		
	Enterococcus faecalis (29212)	None - poor	Colourless		
	Key : * = incubations in 10% carbon-dioxide.				
Precautions :	<ol style="list-style-type: none"> 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
B180	37.46 g/l	13.347 L	7.1 ± 0.2	Nil	121°C / 15 minutes