

**TECHNICAL SHEET**

<b>B180</b>	<b>EMB (EOSIN METHYLENE BLUE) AGAR, LEVINE</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>Gms/lit.</b>			
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			
<b>Directions :</b>					
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.					
<b>Principle :</b>					
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.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Light pink to Light purple			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
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			
<b>(III) Q.C. Test Microbiological</b>					
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.					
<b>Precautions :</b>	<ol style="list-style-type: none"> <li>1. For Laboratory Use.</li> <li>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.</li> <li>3. Store the medium away from light to avoid photooxidation.</li> </ol>				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	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.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B180</b>	37.46 g/l	13.347 L	7.1 ± 0.2	Nil	121°C / 15 minutes

Refer disclaimer Overleaf

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