

TECHNICAL SHEET

B1175	ENDO AGAR , SPECIAL				
Formula					
Ingredients :		Gms/lit.			
Special peptone		11.50			
Lactose		12.90			
Sodium chloride			3.60		
Dipotassium phosphate		0.48			
Monopotassium phosphate		0.22			
Sodium sulphite		1.86			
Sodium Lauryl sulphate	0.01				
Basic fuchsin (pararosaniline)		0.83			
Agar			9.60		
Final pH (at 25°C) : 7.5 ± 0.2					
Directions :					
Suspend 40.0 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If the solidified culture medium is somewhat too red, then to remove the colour, add few drops (Max. 1 ml/lit.) of a freshly prepared 10% sulphite solution and boil.					
Principle :					
Lactose – fermenting bacteria produce acetaldehyde. The aldehyde is fixed by the sodium sulfite and in the presence of fuchsin forms red colonies. A sheen is produced by rapid lactose fermenting organisms. Lactose non – fermenting bacteria form clear, colorless colonies. Endo Agar contains Peptone as a source of carbon, nitrogen, vitamins and minerals. Lactose is the carbohydrate source. Basic Fuchsin in the presence of Sodium sulfite produces the red colonies. Agar is the solidifying agent.					
QC Tests - (I) Dehydrated Medium					
	Colour :	Light purple			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.5 ± 0.2			
	Colour (post autoclaving/heating) :	Orangish pink			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel w/fine precipitate forms in petri plates			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 24 hrs. at 35-37°C.					
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Enterobacteraerogenes (13048)	luxuriant	Pink		
	Escherichia coli (25922)	luxuriant	Pink to Red w/metallic sheen		
	Salmonella typhimurium (14028)	luxuriant	Colourless		
	Salmonella enteritidis (13076)	luxuriant	Colourless		
	Shigella flexneri (12022)	luxuriant	Colourless		
	Enterococcus faecalis (29212)	fair	Colourless to light pink		
Precautions :					
1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
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 detection and isolation of pathogenic enteric bacilli.					
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
B1175	40g/l	12.5L	7.5 ± 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 BIOMARK LABORATORIES publications.

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