

TECHNICAL SHEET

B1557	ENDO AGAR, SPECIAL	
Formula		
Ingredients :	gms/lit.	
Peptone, special	11.50	
Lactose	12.90	
Dipotassium phosphate	0.48	
Monopotassium phosphate	0.22	
Sodium chloride	3.60	
Sodium sulphite	0.86	
Sodium lauryl sulphate	0.01	
Basic fuchsin	0.83	
Agar	9.60	
Final pH (at 25°C) : 7.3 ± 0.2		
Directions :		
Suspend 40.0 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.		
Caution: Basic Fuchsin is a potential Carcinogen and care should be taken to avoid inhalation of the powdered dye and contamination of the skin.		
Principle :		
Sodium sulphite and basic fuchsin has inhibitory effect on gram-positive microorganisms. Sodium Lauryl sulphate inhibits many organisms other than coliforms. Lactose fermenting coliforms produce aldehyde and acid. The aldehyde in turn liberates fuchsin from the fuchsin-sulphite complex, giving rise to a red coloration of colonies. With Escherichia coli this reaction is very pronounced that the fuchsin crystallizes, exhibiting to the colonies a permanent greenish metallic luster (fuchsin luster). The phosphates buffer the medium. Peptone special provides essential nutrients especially nitrogenous for the coliforms.		
QC Tests – (I) Dehydrated Medium		
Colour :	Light pink to purple	
Appearance :	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
pH (post autoclaving/heating) :	7.3 ± 0.2	
Colour (post autoclaving/heating) :	Pink	
Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel with a slight precipitate	
(III) Q.C. Test Microbiological		
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.		
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY
Enterobacter aerogenes (13048)	Good-luxuriant	Pink
Enterococcus faecalis (29212)	None-poor	Pink,small
Escherichia coli (25922)	Good-luxuriant	Pink to rose red with metallic sheen
Klebsiella pneumoniae (13883)	Good-luxuriant	Pink, mucoid
Salmonella Typhi (6539)	Good-luxuriant	Colourless to pale pink
Pseudomonas aeruginosa (27853)	Good-luxuriant	Colourless, irregular
Proteus vulgaris (13315)	Good-luxuriant	Colourless to pale pink
Shigella sonnei (25931)	Good-luxuriant	Colourless to pale pink
Staphylococcus aureus (25923)	Inhibited	--
Bacillus subtilis (6633)	Inhibited	--
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.	

Refer disclaimer Overleaf

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Use :	For the detection of coliform and other enteric organisms.				
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
B1557	40.0 g/l	12.5 L	7.3 ± 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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