BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B515 ENDO AGAR BASE					
Formula					
Ingredients :	gms/lit.				
Peptic digest of animal tissue 1	.0.00				
Lactose 1	0.00				
Dipotassium phosphate 3	3.50				
Sodium sulphite 2	2.50				
Agar 1	2.00				
Final pH (at 25°C) : 7	7.5 <u>+</u> 0.2				
Directions :					
well before pouring into sterile Petri plate	e by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix es. If the solidified culture medium is somewhat too red, then to (max. 1 ml/litre) of a freshly prepared 10% Sodium sulphite				
Principle :					
minerals required for bacterial growth. gram-positive microorganisms. Lactose in turn liberates fuchsin from the fuchsi	animal tissue which provide nitrogen, carbon, vitamins and Sodium sulphite and basic fuchsin (BF) has inhibitory effect on fermenting coliforms produce aldehyde and acid. The aldehyde n-sulphite complex, giving rise to a red colouration of colonies. y pronounced as the fuchsin crystallizes, exhibiting a permanent to the colonies.				
QC Tests – (I)Dehydrated Medium					

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Colour :		Cream to yellow		
Appearance :	Homogene	Homogeneous Free Flowing powder		
(II)Rehydrated medium				
pH (post autoclaving/heating) :	7.5 ± 0.2	7.5 ± 0.2		
Colour (post autoclaving/heating) :	Orangish p	Orangish pink after addition of BF052		
Clarity (post autoclaving/heating) :	Clear to sl	Clear to slightly opalescent gel with fine precipitate		
(III)Q.C. Test Microbiological				
Cultural characteristics observed with a 18-24 hours.	dded Basic fuch	sin (BF052) after an incubation at 35-37°C for		
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
Enterobacter aerogenes (13048)	Good-luxuriant	Pink		
Escherichia coli (25922)	Good-luxuriant	Pink to rose red with metallic sheen		
Salmonella typhi (6539)	Good-luxuriant	Colourless to pale pink		
Shigella sonnei (25931)	Good-luxuriant	Colourless to pale pink		
Klebsiella pneumoniae (13883)	Good-luxuriant	Pink, mucoid		
Proteus vulgaris (13315)	Good-luxuriant	Colourless to pale pink		
Pseudomonas aeruginosa (27853)	Good-luxuriant	Colourless irregular		
Enterobacter cloacae (13047)	Good	Pink		
Salmonella Typhimurium (14028)	Good-luxuriant	Colourless		
Salmonella Enteritidis (13076)	Good-luxuriant	Colourless		
Shigella flexneri (12022)	Good-luxuriant	Colourless		
Streptococcus faecalis (29212)	None-poor	Pink, small		
Staphylococcus aureus (25923)	Inhibited			
Bacillus subtilis (6633)	Inhibited			
Precautions : 1. For Laboratory Use.	L	1		
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	2 Follow proper, established laboratory procedures in handling and disposing of infectious materials.						
	3. Basic fuchsin is a potential carcinogen and care should be taken to avoid inhalation of the powdered dye and contamination of the skin .						
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 preparing Endo Agar to confirm presumptive test for lactose fermenting coliforms.						
Storage:	Dehydrated medium- below 30°C Prepared medium – 2 to 8°C. Away from light to avoid photooxidation.						
Packing:	500 gm. bottle						
Product profile:	Reconstitution	Quantity on Preparation (500g)	рН (25°С)	Supplement	Sterilization		
B515	38g/l	13.15L	7.5 ± 0.2)	10%Basic Fuchsin (BF052)	121ºC / 15 minutes		