BIOMARK Laboratories-INDIA

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TECHNICAL SHEET									
B913 ACETATE DIFFERENTIAL AGAR									
Formula									
Ingredients :	gms/lit.								
Sodium acetate	2.00								
Magnesium sulphate	0.10								
Sodium chloride	5.00								
Monoammonium phosphate	1.00								
Dipotassium phosphate	1.00	1.00							
Bromothymol blue	0.08	0.08							
Agar	20.00	.0.00							
Final pH (at 25°C) : 6.7 <u>+</u> 0.2									
Directions :									
Suspend 29.18 grams in 1000 ml dis									
Distribute in tubes in sufficient amo	unts to gi	ve butt and sla	nt. Sterilize by autoclav	ing at 15 lbs					
pressure (121°C) for 15 minutes. Allo	ow the tub	es to cool in a s	lanted position.						
Principle :									
Acetate Differential Agar was formula									
	modified the medium by replacing sodium citrate by sodium acetate, which enables the								
differentiation of Shigella species from									
differentiation of Enterobacteriaceae,									
Most bacteria, however, can use ci									
differentiation of groups is based on									
medium devoid of trace organic nitro									
of nitrogen. Trabulsi and Ewing demo									
acetate and therefore fails to grow. N									
24-48 hours but some strains grow									
sole carbon source. Acetate utilizatio									
utilization of sodium acetate and su									
presence of bromothymol blur indica									
and therefore may produce a false n									
carbon by some serobiotypes of S essential ion, sodium chloride mainta									
QC Tests – (I)Dehydrated Medium		le equilibrium ar	iu phosphates act as bui	iers.					
Colour :		Cream to greenich vellow							
		Cream to greenish yellow							
Appearance :		Homogeneous Free Flowing powder							
(II)Rehydrated medium									
pH (post autoclaving/heating) :	<u> </u>	6.7 <u>+</u> 0.2							
Colour (post autoclaving/heating		Emerald green							
Clarity (post autoclaving/heating	Clear to slightly opalescent								
(III)Q.C. Test Microbiological	- 6+	n eule et le mail a 25	2000 fem water f. 7. 1						
Cultural characteristics observed after an incubation at 25-30°C for upto 1-7 days.									
MICROORGANISM (ATCC)		WTH	ACETATE UTILIZATION						
Citrobacter freundii (8090)		d -luxuriant	+						
Enterobacter cloacae (23355)		d -luxuriant	+						
Escherichia coli (25922)	Good –luxuriant		+						
Klebsiella pneumoniae (13883)		d -luxuriant	+						
Salmonella arizonae (13314)	Good –luxuriant		+						
Salmonella typhi (19430)	Poor		-						
Shigella sonnei (25931)		e-poor	-						
Proteus vulgaris (13315)	Inhit		-						
Key : + = Colour change of the r			e						
- = No change, medium re									

Refer disclaimer Overleaf

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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 the differentiation of Shigella from Escherichia coli.							
Storage :	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.							
Packing :	500 gm. bottle							
Product profile:	Reconstitution	Quantity on Preparation (500g)	рН (25°С)	Supplement	Sterilization			
B913	29.18 g/l	17.13 L	6.7 <u>+</u> 0.2	Nil	121ºC /15 min.			

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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