

**TECHNICAL SHEET**

<b>B900</b>	<b>A 1 MEDIUM</b>				
<b>Formula</b>					
<b>Ingredients :</b>			<b>gms/lit.</b>		
Casein enzymic hydrolysate	20.00				
Lactose	5.00				
Sodium chloride	5.00				
Salicin	0.50				
Polyethylene glycol p-isooctylphenyl ether (Triton 100)	1 ml.				
Final pH (at 25°C) : 6.9 ± 0.2					
<b>Directions :</b>					
Suspend 31.5 gms. in 1000 ml. distilled water. Heat to dissolve the medium completely. Distribute 10 ml. amounts into tubes containing inverted Durham's tubes. Sterilize by autoclaving at 15 lbs pressure (121° C) for 10 minutes.					
<b>Principle :</b>					
Casein enzymic hydrolysate provides carbonaceous and nitrogenous substances required for bacterial metabolism. Lactose and salicin act as energy sources and sodium chloride maintains osmotic equilibrium. Polyethylene glycol p-isooctylphenyl ether acts as a surfactant.					
<b>QC Tests – (I)Dehydrated Medium</b>					
	Colour :	Cream to light yellow			
	Appearance :	Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
	pH (post autoclaving/heating) :	6.9 ± 0.2			
	Colour (post autoclaving/heating) :	Light amber to light yellow			
	Clarity (post autoclaving/heating) :	Clear			
<b>(III)Q.C. Test Microbiological</b>					
	Cultural characteristics observed after 18 –24 hrs.				
	MICROORGANISM (ATCC )	RECOVERY AT 35-37°C		RECOVERY AT 44.5°C	
	Enterobacter aerogenes (13048)	Luxuriant (May or may not produce gas)		Poor to good	
	Escherichia coli (25922)	Luxuriant w/gas		Luxuriant w/gas	
	Salmonella typhimurium (1334)	Luxuriant without gas		Good without gas	
	Enterococcus faecalis (19433)	Poor		None to poor	
	Bacillus subtilis (6633)	None		None	
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<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. 2. Fecal coliform counts are usually greater than E. coli counts. 3. Interpretation of test procedure using A-1 Medium requires understanding of the microflora of the specimen.				
<b>Use :</b>	For detecting the presence of faecal coliforms in water samples and foods by MPN technique.				
<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>B900</b>	31.50 g/l	15.87 L	6.9 +0.2	None	121 <sup>0</sup> C /10 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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