

**TECHNICAL SHEET**

<b>B1170</b>	<b>ECD AGAR</b>				
<b>Formula</b>					
<b>Ingredients:</b>			<b>gms/lit.</b>		
Casein enzymic hydrolysate			20.00		
Yeast extract			5.00		
Bile salts			1.50		
Sodium chloride			5.00		
Disodium hydrogen phosphate			5.00		
Potassium dihydrogen phosphate			1.50		
Agar			15.00		
Final pH (at 25°C): 7.2+ 0.2					
<b>Directions:</b>					
Suspend 53.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50° C. Pour into sterile Petri plates.					
<b>Principle:</b>					
The medium has casein enzymic hydrolysate and yeast extract which provide essential nutrients especially nitrogenous sources for the coliforms. Bile salts selectively inhibit gram-positive organisms. Sodium chloride maintains the osmotic balance while phosphate salts buffer the medium.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour:			Cream to yellow		
Appearance:			Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :			7.2± 0.2		
Colour (post autoclaving/heating):			Yellow		
Clarity (post autoclaving/heating):			Clear to slightly opalescent		
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18-24 hours at 35-37°C.					
MICROORGANISM (ATCC)			GROWTH		
Escherichia coli (25922)			good-luxuriant		
Enterobacter aerogenes (13048)			good-luxuriant		
Salmonella Typhi (6539)			good-luxuriant		
Staphylococcus aureus (25923)			Inhibited		
<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.				
<b>Use:</b>	It is recommended for the selective detection of coliforms, especially Escherichia coli in water, food, and other material and in membrane filter 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>B1170</b>	53.0g/l	9.43L	7.2 ± 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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