

**TECHNICAL SHEET**

<b>B571</b>		<b>KANAMYCIN ESCULIN AZIDE AGAR</b>			
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Tryptone		20.00			
Yeast extract		5.00			
Sodium chloride		5.00			
Sodium citrate		1.00			
Esculin		1.00			
Ferric ammonium citrate		0.50			
Sodium azide		0.15			
Kanamycin sulphate		0.02			
Agar		12.00			
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 44.67 grams in 1000 ml purified / 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. Dispense as desired. Caution: Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables					
<b>Principle :</b>					
Tryptone, yeast extract provides essential nutrients for Enterococci. Kanamycin sulphate and sodium azide are the selective inhibitory components. Esculin and ferric ammonium citrate together form indicator system to detect esculin – hydrolyzing Streptococci forming black zones around the colonies.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Cream to light yellow w/greenish tinge			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Medium amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent gel with purplish tinge forms in Petri plates			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours					
MICROORGANISM (ATCC )		GROWTH	ESCULIN HYDROLYSIS		
Enterococcus faecium (19434)		Good-luxuriant	Positive, blackening of medium around the colony		
Enterococcus bovis (27960)		Good-luxuriant	Positive, blackening of medium around the colony		
Escherichia coli (25922)		Inhibited	-		
Enterococcus faecalis (29212)		Good-luxuriant	Positive, blackening of medium around the colony		
Staphylococcus aureus (25923)		Inhibited	-		
<b>Precautions :</b>	<ol style="list-style-type: none"> <li>For Laboratory Use.</li> <li>Follow proper, established laboratory procedures in handling and disposing of infectious materials.</li> </ol>				
<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>	For selective isolation and identification of group D Streptococci in foodstuffs.				
<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>B571</b>	44.67g/l	11.19L	7.0 ± 0.2	NIL	121°C / 15 minutes

Refer disclaimer Overleaf

**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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.