

TECHNICAL SHEET

B1133	KANAMYCIN ESCULIN AZIDE AGAR BASE				
Formula					
Ingredients :					
	gms/lit.				
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				
Agar	10.00				
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 21.32 gms in 500ml distilled water. Add one vial of Kanamycin sulphate selective supplement(BF130) reconstituted as directed. Bring to boil. Dispense into final containers & Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
WARNING: 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.					
Principle :					
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 – hydrolysing Streptococci forming black zones around the colonies.					
QC Tests – (I) Dehydrated Medium					
Colour :	Cream to light yellow				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.0 ± 0.2				
Colour (post autoclaving/heating) :	Medium amber				
Clarity (post autoclaving/heating) :	Slightly opalescent gel with purpish tinge forms in petri plates.				
(III) Q.C. Test Microbiological					
Cultural characteristics observed after	18-24 hrs at 35-37°C or 42°C.				
MICROORGANISM (ATCC)	GROWTH	ESCULIN HYDROLYSIS			
Enterococcus faecium (19434)	Luxuriant	+			
Streptococcus bovis (27960)	Luxuriant	+			
Escherichia coli (25922)	Inhibited	-			
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 selective isolation and identification of group D Streptococci in foodstuffs.				
Storage :					
	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :					
	500 gm. bottle				
Product profile:					
	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1133	42.64 g/l	11.726L	7.0 ± 0.2	Kanamycin sulphate selective supplement (BF130)	121°C / 15 minutes