

TECHNICAL SHEET

B1145		KANAMYCIN ESCULIN AZIDE BROTH 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				
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 32.65 gms in 1000ml. 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) :	Clear solution with purpish tinge forms in tubes.				
(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
B1145		32.65 g/l	15.313 L	7.0 ± 0.2	Kanamycin sulphate selective supplement (BF130)	121°C / 15 minutes