B1340	**DNASE AGAR**

Formula

Ingredients :	**gms/lit.**
Tryptone	20.00
Deoxyribonucleic acid (DNA)	2.00
Sodium chloride	5.00
Agar	15.00
Final pH (at 25°C) : 7.3 ± 0.2	

Directions :

Suspend 42 gms. in 1000 ml. distilled water. Heat with frequent agitation to dissolve the medium completely. Sterilize by autoclaving at 12 to 15 lbs pressure (118°C to 121°C) for 15 minutes. Cool to 45°C and pour into sterile Petri plates.

Principle :

Tryptone provide nitrogen, amino acids and other nutrients. Deoxyribonucleic Acid enables the detection of DNase that depolymerizes DNA. Sodium Chloride provides essential ions while maintaining osmotic balance. Agar is a solidifying agent.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to light yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.3 ± 0.2
	Colour (post autoclaving/heating) :	Cream to light amber
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after	18 –24 hrs at 35-37°C.

	MICROORGANISM (ATCC)	GROWTH	DNASE ACTIVITY	
	Staphylococcus aureus (25923)	Luxuriant	+	
	Staphylococcus epidermidis (12228)	Luxuriant	-	
	Streptococcus pyogenes (19615)	Luxuriant	+	
	Serratia marcescens (8100)	Luxuriant	+	
	Key : + = change in colour from blue to pink purple around the growth when toluidine blue is used.			

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 detection of deoxyribounclease activity of bacteria and fungi and especially for identification of pathogenic Staphylococci.
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
B1340	42g/l	11.90L	7.3 ± 0.2	NIL	118°C to121^{0}C / 15 minutes

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