B1002	**DNase Test Agar Base w/o DNA**
Formula	
Ingredients:	**gms/lit.**
Casein enzymic hydrolysate	15.00
Papaic digest of soyabean meal	5.00
Sodium chloride	5.00
Agar	15.00
Final pH (at 25°C): 7.3± 0.2	
Directions:	
Suspend 40.0 grams in 1000 ml distilled water. Add 2 grams of DNA, 0.025 grams Bromothymol blue and 10 grams of mannitol. Heat, to boiling, 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:	
Casein enzymic hydrolysate or papaic digest of soyabean meal provides essential nutrients. The depolymerization of the DNA (DNase activity) may be detected by flooding the surface of the medium with 1 N HCl and observing for clear zones around the colonies on the medium (with added DNA and mannitol and no bromothymol blue). In the absence of DNase activity, cloudy precipitate is formed due to reaction of HCl with nucleic acids.When bromothymol blue is used, yellow zones are formed.	
QC Tests – (I)Dehydrated Medium	
Colour:	Cream to yellow
Appearance:	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating):	7.3 ± 0.2
Colour (post autoclaving/heating):	After addition of Bromothymol blue: Blue
Clarity (post autoclaving/heating):	Clear to slightly opalescent
(III)Q.C. Test Microbiological	
Cultural characteristics observed with added 2 grams of DNA, 0.025 grams Bromothymol blue and 10 grams of mannitol after an incubation at 35-37°C for 18-24 hours.	

MICROORGANISM (ATCC)	GROWTH	D-NASE ACTIVITY
Serratia marcescens (8100)	Luxuriant	positive reaction, change in colour from green to yellow around the growth
Staphylococcus aureus(25923)	Luxuriant	positive reaction, change in colour from green to yellow around the growth
Staphylococcus epidermidis (12228)	Luxuriant	negative reaction
Streptococcus pyogenes(19615)	Luxuriant	positive reaction,change in colour from green to yellow around the growth

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:	It is recommended for the detection of deoxyribonuclease activity of bacteria and fungi particularly 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
B1002	40.0g/l	12.50L	7.3± 0.2	NIL	118°C to 121°C for 15 minutes

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