

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

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 BIOMARK LABORATORIES 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.