

TECHNICAL SHEET

B158	DNASE TEST AGAR BASE				
Formula					
Ingredients:	gms/lit.				
Tryptone	15.00				
Soya peptone	5.00				
Deoxyribonucleic acid (DNA)	2.00				
Sodium chloride	5.00				
Agar	15.00				
Final pH (at 25°C) : 7.3 ± 0.2					
Directions:					
Suspend 42 grams 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 petriplates. Add 0.1 gram Toluidine Blue (BF045) before sterilizing the medium or flood the plates with 0.1% Toluidine Blue after incubation as desired.					
Principle :					
Tryptone and soya peptone 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. Toluidine blue is a colorimetric indicator. 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) :	Basal medium :Light amber ; After addition of Toluidine blue(BF045) : Blue				
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 :	Recommended for the detection of deoxyribonuclease 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
B158	42g/l	11.90L	7.3 ± 0.2	0.1g Toluidine Blue (BF045)	118°C to 121°C) for 15 minutes.

Refer disclaimer Overleaf

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 BIOMARKLABORATORIES publications.

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