

TECHNICAL SHEET

B580	DNASE TEST AGAR BASE W/ METHYL GREEN				
Formula					
Ingredients:	gms/lit.				
Tryptose	20.00				
Deoxyribonucleic acid (DNA)	2.00				
Sodium chloride	5.00				
Methyl green	0.05				
Agar	15.00				
Final pH (at 25°C) : 7.3 ± 0.2					
Directions:					
Suspend 42.05 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.					
Principle :					
Tryptose serves as nitrogenous source for the organisms. DNase produced by microorganisms depolymerizes the DNA substrate in the medium. Methyl green fades into a colourless compound producing distinct clear zones surrounding colonies (or band/ spot inocula) in an otherwise green coloured medium. Methyl green requires a highly polymerized DNA substrate and it combines with polymerized DNA forming a stable, green complex at pH 7.5. As hydrolysis progresses, methyl green is released and when not combined at this pH it fades and becomes a colourless compound. Therefore clear zones are observed					
QC Tests - (I) Dehydrated Medium					
Colour :	Light yellow to greenish yellow				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.3 ± 0.2				
Colour (post autoclaving/heating) :	Green				
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	positive, clear halo around the growth			
Staphylococcus epidermidis (12228)	Luxuriant	negative reaction			
Streptococcus pyogenes (19615)	Luxuriant	positive, clear halo around the growth			
Serratia marcescens (8100)	Luxuriant	positive, clear halo 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, 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
B580	42.05 g/l	11.89 L	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 BIOMARKLABORATORIES publications.

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