

BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

B081	THIOL MEDIUM					
Formula						
Ingredients :		gms/lit.				
Proteose peptone		10.00				
Yeast extract		5.00				
Dextrose		1.00				
Sodium chloride		5.00				
Thiol compound		8.00				
p-amino benzoic acid		1.00				
Agar		1.00				
Final pH (at 25°C) :		7.1 ± 0.2				
Directions :						
Suspend 30 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense in tubes or flasks to a depth of 6 cm for neutralization of Penicillin or in shallow layers for neutralization of streptomycin. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Proteose Peptone and Yeast Extract provide nitrogen, vitamins and amino acids in Thiol media. Dextrose is a carbon source. Sodium chloride maintains osmotic balance. Para - aminobenzoic acid is a preservative. Thiol complex is rich in sulfhydryl (-SH) groups, which neutralize the bacteriostatic and bactericidal effects of penicillin, streptomycin and sulfonamides. Thiol Medium contains 0.1% agar to maintain an Eh potential that facilitates anaerobic growth and aids in dispersion of reducing substances and CO ₂ formed in the environment.						
QC Tests - (I) Dehydrated Medium						
Colour :		Light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.1 ± 0.2				
Colour (post autoclaving/heating) :		Very light yellow				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 – 48 hrs. at 35-37 °C.						
MICROORGANISM (ATCC)		GROWTH				
Staphylococcus aureus (25923)		Good - luxuriant				
Streptococcus pneumoniae (6303)		Good - luxuriant				
Streptococcus pyogenes (19615)		Good - luxuriant				
Neisseria meningitidis (13090)		Poor - good				
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 cultivation of organisms from body fluids and other materials containing Penicillin, Streptomycin and Sulphonamides.				
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
B081		30 g/l	16.66L	7.1 ± 0.2	NIL	121°C /15 min.