

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B082</b>	<b>THIOL BROTH</b>				
<b>Formula</b>	<b>B082</b>				
<b>Ingredients :</b>	<b>gms/lit.</b>				
Proteose peptone	10.00				
Yeast extract	5.00				
Dextrose	1.00				
Sodium chloride	5.00				
Thiol compound	8.00				
Final pH (at 25°C) : 7.1 ± 0.2					
<b>Directions :</b>					
Suspend 29 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.					
<b>Principle :</b>					
Proteose Peptone and Yeast Extract provide nitrogen, vitamins and amino acids in Thiol media. Dextrose is a carbon source. Sodium chloride maintains osmotic balance. Thiol complex is rich in sulfhydryl (-SH) groups, which neutralize the bacteriostatic and bactericidal effects of penicillin, streptomycin and sulfonamides.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :	Light yellow				
Appearance :	Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :	7.1 ± 0.2				
Colour (post autoclaving/heating) :	Very light yellow				
Clarity (post autoclaving/heating) :	Clear to slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>					
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				
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	For cultivation of organisms from body fluids and other materials containing Penicillin, Streptomycin and Sulphonamides.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B082</b>	29 g/l	17.24L	7.1 ± 0.2	NIL	121°C /15 min.