

B764	TB BROTH BASE					
Formula						
Ingredients:			gms/lit.			
Proteose peptone			4.00			
Yeast extract			2.00			
Disodium phosphate			2.50			
Monopotassium phosphate			1.00			
Sodium citrate			1.50			
Magnesium sulphate			0.60			
Polysorbate 80			0.50			
Final pH (at 25°C): 7.0 ± 0.2						
Directions:						
Suspend 12.1 grams in 1000 ml distilled water, which if desired contains 5 ml glycerol (tested to be non-inhibitory to typical cultures). Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C and enrich with dextrose to a final concentration of 0.5% and either bovine albumin fraction-V or serum as desired.						
Principle:						
Proteose peptone and yeast extract provide nitrogenous nutrients like amino acids and peptides, vitamin B complex and other essential nutrients. The medium is well buffered by phosphates. The salts present in the medium supply ions required for the mycobacterial metabolism. Sodium citrate inhibits gram-positive organisms and coliforms. Polysorbate 80, an oleic acid ester provides essential fatty acids for the replication of Mycobacteria.						
QC Tests - (I) Dehydrated Medium						
Colour:			Cream to yellow			
Appearance:			Homogeneous Free Flowing powder			
(II) Rehydrated medium						
pH (post autoclaving/heating) :			7.0 ± 0.2			
Colour (post autoclaving/heating):			Yellow			
Clarity (post autoclaving/heating):			Clear solution without any precipitate.			
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 35-37°C for 2-4 weeks						
MICROORGANISM (ATCC)		GROWTH				
Mycobacterium kansasii (12478)		luxuriant				
Mycobacterium smegmatis (14468)		luxuriant				
M. tuberculosis H37RV (25618)		luxuriant				
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 used for cultivation of Mycobacterium tuberculosis .				
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
B764		12.1g/l	41.322 L	7.0 ± 0.2	0.5% dextrose bovine albumin fraction-V or serum	121°C / 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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