

TECHNICAL SHEET

B1440	TRYPTIC SOYA BROTH, MODIFIED (mTSB)				
Formula					
Ingredients :		gms/lit.			
Pancreatic Digest of Casein		17.00			
Soya Peptone		3.00			
Sodium chloride		5.00			
Dipotassium Hydrogen Phosphate		2.50			
Glucose		2.50			
Bile Salts No.3		1.50			
Final pH (at 25°C) : 7.3 ± 0.2					
Directions :					
Suspend 31.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Distribute 250 ml into flasks and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and to each 250 ml flask add, under aseptic conditions Novobiocin supplement (BF083) reconstituted with 2.0 ml of sterile distilled water. Final concentration should be 20.0 mg/liter.					
Principle :					
The combination of Pancreatic Digest of Casein and Soya peptone makes these media nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Dextrose and dipotassium phosphate serves as the carbohydrate source and the buffer in the medium. Sodium chloride maintains osmotic balance in both the media.					
QC Tests - (I)Dehydrated Medium					
Colour :		Cream to yellow			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.3 ± 0.2			
Colour (post autoclaving/heating) :		Yellow			
Clarity (post autoclaving/heating) :		Clear solution in tubes.			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at 40-42°C for 12-18 hours.					
MICROORGANISM (ATCC)		GROWTH			
Escherichia coli 0157 (NCTC 12900)		good-luxuriant			
Staphylococcus aureus (25923)		inhibited			
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 selective liquid medium for the enrichment of E.coli 0 157 in food stuffs. Recommended by International Organization for Standardization ISO/DIS 16654:1999.			
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
B1440	31.5 g/l	15.873 L	7.3 ± 0.2	Novobiocin supplement (BF083)	121°C /15 min.

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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