

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1403	MULLER KAUFFMAN TETRATHIONATE BROTH BASE					
Formula						
Ingredients:		gms/lit.				
Peptic digest of animal tissue		4.30				
Casein enzymic hydrolysate		8.60				
Ox Bile		4.75				
Sodium chloride		2.60				
Calcium carbonate		38.70				
Sodium thiosulphate, pentahydrate		47.80				
Brilliant green		0.0095				
Final pH (at 25°C): 8.2 ± 0.2						
Directions :						
Suspend 89.42 grams of dehydrated medium in 1000 ml distilled water. Heat the medium just to boiling. DO NOT AUTOCLAVE. Cool to 45-50°C and just before use aseptically add 20 ml of iodine solution (20 gram iodine and 25 gram potassium iodide in 100 ml sterile distilled water) along with rehydrated contents of 1 vial of MKTT Novobiocin Supplement (BF141). Mix well to disperse calcium carbonate uniformly before dispensing in sterile tubes.						
Principle :						
Casein enzymic hydrolysate and peptic digest of animal tissue as sources of carbon, nitrogen, vitamins and minerals. Ox bile and added brilliant green are selective agents, which inhibit gram-positive and other gram-negative organisms. Calcium carbonate is the buffer. Sodium chloride maintains osmotic equilibrium. Sodium thiosulphate is a source of sulfur.						
QC Tests – (I)Dehydrated Medium						
Colour :		Cream to greenish yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		8.2 ± 0.2				
Colour (post autoclaving/heating) :		Pale green				
Clarity (post autoclaving/heating) :		Opaque solution with heavy white precipitate				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 43°C for 18-48 hours with added 20ml iodine solution and MKTT Novobiocin Supplement (BF141), when subcultured on Soyabean Casein Digest Agar (B039).						
MICROORGANISM (ATCC)		RECOVERY				
Salmonella typhimurium (14028)		Excellent				
Salmonella Enteritidis (13076)		Excellent				
Salmonella Paratyphi A (9150)		Excellent				
Salmonella Paratyphi B (8759)		Excellent				
Salmonella Typhi (6539)		Inhibited				
Escherichia coli (25922)		none-poor				
Proteus vulgaris (13315)		none-poor				
Shigella flexneri (12022)		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 :		For improved enrichment and isolation of Salmonellae. Recommended by ISO 6579:2002.				
Storage :		Dehydrated medium- below 30°C Prepared medium – at 2-8°C				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1403	89.42 g/l	5.59 L	8.2 ± 0.2	MKTT Novobiocin Supplement (BF141)	DO NOT AUTOCLAVE	

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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