

TECHNICAL SHEET

B1565	Kauffman Muller's Tetrathionate Broth Base	
Formula		
Ingredients :	gms/lit.	
Peptone	9.00	
Meat Extract	9.00	
Sodium chloride	4.50	
Calcium carbonate	50.00	
Sodium thiosulphate	50.00	
Bile #	10.00	
# Equivalent to ox bile		
Final pH (at 25°C) : Self		
Directions :		
Suspend 132.5 grams in 1000 ml distilled water. Heat just to boiling to disolve the medium. DO NOT AUTOCLAVE. Cool and just before use aseptically add 20 ml of iodine solution. (4-gram iodine and 5-gram Potassium iodide in 20 ml sterile distilled water) and 10 ml of 0.1 % Brilliant green solution. Mix well before dispensing in the sterile tubes to disperse Calcium carbonate uniformly. Note: Due to presence of Calcium carbonate the prepared medium forms opalescent solution with white precipitate.		
Principle :		
Peptone and meat extract as sources of carbon, nitrogen, vitamins and minerals. 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 balance of medium. Sodium thiosulphate & tetrathionate suppresses Commensal intestinal organisms. Muller Kauffmann Tetrathionate Broth Base conforms with ISO Standards.		
QC Tests – (I)Dehydrated Medium		
Colour :	Cream to yellow	
Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium		
PH (post autoclaving/heating) :	Self	
Colour (post autoclaving/heating) :	With added brilliant green & iodine solution, light green	
Clarity (post autoclaving/heating) :	Opalescent solution with heavy white precipitate	
(III) Q.C. Test Microbiological		
Cultural characteristics observed, when subcultured on Soyabean Casein digest Agar,after an incubation at 43°C for 18-24 hours with added iodine and brilliant green solution.		
MICROORGANISM (ATCC)	RECOVERY	
Salmonella typhimurium (14028)	Excellent	
Salmonella enteritidis (13076)	Excellent	
Salmonella paratyphi A	Excellent	
Salmonella paratyphi B	Excellent	
Escherichia coli (25922)	None-poor	
Proteus vulgaris (13315)	None-poor	
Shigella flexneri (12022)	Good	
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

Refer disclaimer Overleaf

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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:	Recommended as selective enrichment medium for isolation of Shigella species from food samples. It is recommended by BIS committee under the specifications IS:5887(Part I)-1999.				
Storage :	Dehydrated medium- below 30°C Prepared medium– Use freshly prepared medium.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1565	132.5 g/l	3.773 L	Self	Iodine solution (4g iodine and 5g potassium iodide in 20ml D/W and 10ml 0.1% brilliant green solution per litre of medium).	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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