

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1287	MUELLER KAUFFMAN TETRATHIONATE NOVOBIOCIN BROTH				
Formula					
Ingredients :		gms/lit.			
Peptone		4.3			
Casein enzymic hydrolysate		8.6			
Bile salt		4.75			
Sodium chloride		2.6			
Calcium carbonate		38.7			
Sodium thiosulphate 5H ₂ O		47.8			
Brilliant green		0.0095			
Final pH (at 25°C) : 8.2 ± 0.2					
Directions :					
Suspend 106.8 gms. in 1000 ml. distilled water, mix well and bring to the boil. Cool to below 45°C. Immediately before use add 10ml of iodine – iodide solution prepared by dissolving 25g of potassium iodide in 10ml of water, adding 20g of iodine and then diluting to 100ml with sterile water. Also add the contents of one vial of MKTT Novobiocin Supplement. Mix well before dispensing in the sterile tubes to disperse Calcium Carbonate uniformly.					
Principle :					
This medium was developed by Mueller and Lates Modified by Kauffmann with the addition of Ox bile and Brilliant green to improve selectivity. The addition of Novobiocin at 40mg per litre was later described by Jeffries to improve inhibition of Proteus species. This is a selective enrichment medium for the isolation of Salmonella.					
QC Tests – (I) Dehydrated Medium					
	Colour :	White			
	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 24- 48 hrs at 35-37°C.				
	MICROORGANISM (ATCC)	RECOVERY			
	Salmonella typhimurium (14028)	Good			
	Escherichia coli (25922)	Inhibited			
	Enterococcus faecalis (29212)	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.			
Storage :		Dehydrated medium- below 30°C Prepared medium – Kept for upto 2 weeks at room temperature. Prepared medium in final form should be used immediately.			
Packing :		500 gm. bottle			
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement
B1287		106.8g/l	4.68L	8.2 ± 0.2	MKTT Novobiocin Supplement
					121°C / 15 minutes