

**TECHNICAL SHEET**

<b>B1329</b>	<b>MUELLER KAUFFMAN TETRATHIONATE BROTH</b>	
<b>Formula</b>		
<b>Ingredients :</b>	<b>gms/lit.</b>	
Meat extract	4.30	
Peptone from Casein	8.60	
Sodium chloride	2.60	
Calcium carbonate	38.70	
Sodium thiosulphate pentahydrate	47.80	
Ox bile	4.78	
Final pH (at 25°C) : 8.2 ± 0.2		
<b>Directions :</b>		
Suspend 106.82 gms. in 1000 ml. distilled water. Heat to boiling to dissolve the medium. DO NOT AUTOCLAVE. Cool and just before use aseptically add 19ml of iodine solution (20g iodine and 25g potassium iodide in 100 ml sterile distilled water) and 9.5ml of 0.1% brilliant green solution. Add 4 mg.of Novobiocin per lit of broth.Mix well before dispensing in the sterile tubes to disperse calcium carbonate uniformly.		
<b>Principle :</b>		
Mueller Kauffmann Tetrathionate Broth was originally developed by Mueller and later modified by Kauffman and recommended by APHA for enrichment and isolation of Salmonellae. Kauffman added brilliant green and ox-bile to suppress commensal organisms and thus improved the isolation of Salmonellae. Brilliant green is added after heating as the heating impairs its selective action.Novobiocin can be added to suppress Proteus species. Casein enzymic hydrolysate, papaic digest of soyabean meal provides essential growth nutrients.		
<b>QC Tests – (I)Dehydrated Medium</b>		
Colour :	Cream	
Appearance :	Homogeneous Free Flowing powder	
<b>(II)Rehydrated medium</b>		
PH (post autoclaving/heating) :	Self	
Colour (post autoclaving/heating) :	With added brilliant green & iodine solution, light green	
Clarity (post autoclaving/heating) :	Opalescent	
<b>(III) Q.C. Test Microbiological</b>		
Cultural characteristics observed after 18-48 hrs. at 43°C.		
MICROORGANISM (ATCC )	RECOVERY	
Salmonella typhimurium (14028)	Excellent	
Salmonella enteritidis (13076 )	Excellent	
Salmonella paratyphi A	Excellent	
Salmonella paratyphi B	Excellent	
Escherichia coli (25922)	Little –none	
Proteus vulgaris (13315 )	Little –none	
Salmonella typhi ( 6539 )	Inhibited	
Shigella flexneri (12022)	Inhibited	
<b>Precautions :</b>	1. For Laboratory Use.	
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

Refer Disclaimer overleaf

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<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
	2. The complete medium is unstable and should be used immediately. It may be stored at 2-8 °C in the dark for no more than seven days.				
	3. Due to the nutritional requirements and inhibitory characteristics of the organisms themselves, organisms other than salmonellae, such as Morganella morganii and some Enterobacteriaceae may grow in the medium.				
	3. Confirmatory tests, such as fermentation reactions and seroagglutination should be carried out on all presumptive Salmonella colonies that are recovered.				
<b>Use :</b>	For improved enrichment and isolation of Salmonellae.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Use freshly prepared medium.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation(500g)	pH (25°C)	Supplement	Sterilization
<b>B1329</b>	106.82g/l	4.68L	8.2 ± 0.2	iodine solution (20g iodine and 25g potassium iodide) and 9.5ml of 0.1% brilliant green solution	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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