

TECHNICAL SHEET

LM020	Tetrathionate Broth	
Formula		
Ingredients:		
	gms/lit.	
Peptone, special	18.00	
Yeast extract	2.00	
Sodium chloride	5.00	
D-Mannitol	2.50	
Dextrose	0.50	
Sodium deoxycholate	0.50	
Sodium thiosulphate	38.00	
Calcium carbonate	25.00	
Brilliant green	0.01	
Directions:		
Label the ready to use bottle (LM020). Inoculate the sample and incubate at specified temperature and time.		
Principle:		
Peptone special and yeast extract are the sources of carbon, nitrogen, vitamins and minerals. The selectivity depends on the ability of thiosulphate and tetrathionate (formed by the addition of iodine-iodide) to suppress commensal coliform organisms. Sodium deoxycholate and brilliant green inhibit gram-positive organisms. Dextrose and Mannitol are the carbohydrates sources. Calcium carbonate neutralizes the acidic tetrathionate decomposition products. Sodium chloride maintains the osmotic balance of the medium. For further confirmation, streak the enriched cultures after incubation, on plates of Brilliant Green Agar (B016), MacConkey Agar (B236) and Bismuth Sulphite Agar (B115).		
(I) QC Tests		
Color:	Sterile Clear Tetrathionate Broth in glass bottle.	
Appearance:	Bluish green coloured solution with white precipitate.	
(II) Sterility test		
Passes release criteria		
(III) Q.C. Test Microbiological		
Cultural characteristics observed after incubation at 35-37°C for 18-24 hours when recovered on MacConkey Agar (B236)		
MICROORGANISM (ATCC)	RECOVERY	
S. SEROTYPE TYPHIMURIUM 14028	Luxuriant	
Escherichia coli 25922	Fair	
Staphylococcus aureus 25923	Inhibited	
S. serotype enteritidis 13076	Luxuriant	

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Precautions :	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
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:	Selective enrichment medium for isolation of Salmonella from foods and other pathological materials.
Storage:	Store between 2-8 °C. Use before expiry date on the label.
Packing:	10ml in 25/50 Glass bottle.

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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