

B1489	MUD SF BROTH BASE					
Formula						
Ingredients :			gms/lit.			
Tryptose			40.00			
Monopotassium phosphate			10.00			
D-Galactose			2.00			
Tween 80 (Polysorbate 80)			1.50			
4-Methylumbelliferyl-beta-D-glucoside (MUD)			0.15			
Final pH (at 25°C) :			7.5 ± 0.2			
Directions :						
Suspend 5.36 grams in 100 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45 - 50°C and aseptically add rehydrated contents of one vial of Enterococcus Selective Supplement (BF121) and 1 ml of sterile 1% TTC Solution (BF044). Mix well and dispense as desired.						
Principle :						
Tryptose provides carbonaceous, nitrogenous and other essential growth nutrients. Galactose serves as energy source. Phosphate buffers the medium well. Tween 80 provides fatty acids. MUD (4- Methylumbelliferyl-b-D-glucoside) is added as fluorogenic substance. Intestinal Enterococci are capable of anaerobic growth at 44°C and of hydrolyzing 4-methylumbelliferyl-β-D-glucoside (MUD) in the presence of thallium acetate, nalidixic acid (as BF) and 2, 3, 5-Triphenyltetrazolium chloride resulting in blue fluorescence.						
QC Tests – (I)Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.5 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		clear solution				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 44°C for 36-72 hours.						
MICROORGANISM (ATCC)		GROWTH	FLUORESCENCE AT 366 nm			
Enterococcus faecalis (29212)		luxuriant	positive, blue			
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 :		It is recommended by ISO committee under the specification ISO 7899-1:1998 for the detection and enumeration of intestinal Enterococci in surface and waste water by miniaturized method (MPN).				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1489		53.65 g/l	9.319 L	7.5 ± 0.2	Enterococcus Selective Supplement (BF121) & 1% TTC Solution (BF044)	121°C / 15 minutes

Disclaimer:

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