

TECHNICAL SHEET

B041	VIOLET RED BILE BROTH	
Formula		
Ingredients :		gms/lit.
Peptic digest of animal tissue		7.00
Yeast extract		3.00
Lactose		10.00
Bile salt mixture		1.50
Sodium chloride		5.00
Neutral red		0.03
Crystal violet		0.002
Final pH (at 25°C): 7.4 ± 0.2		
Directions :		
Suspend 26.53 grams in 1000 ml distilled water. Heat with stirring to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45°C and dispense into sterile tubes containing the inoculum.		
Principle :		
Peptic digest of animal tissue and yeast extract serve as sources of carbon, nitrogen, vitamins and other essential growth nutrients. Lactose is the fermentable carbohydrate, utilization of which leads to the production of acids. Neutral red indicator detects the acidity so formed. Crystal violet and bile salts mixture help to inhibit the accompanying gram-positive and unrelated flora. Sodium chloride maintains the osmotic equilibrium. Further biochemical tests are necessary for positive identification		
QC Tests – (I) Dehydrated Medium		
Colour :		Pinkish beige to yellow
Appearance :		Homogeneous Free Flowing powder
(II) Rehydrated medium		
pH (post autoclaving/heating) :		7.4 ± 0.2
Colour (post autoclaving/heating) :		Reddish purple
Clarity (post autoclaving/heating) :		Clear
(III) Q.C. Test Microbiological		
Cultural characteristics observed after 18 - 24 hrs. at 35-37°C.		
MICROORGANISM (ATCC)	GROWTH	COLOUR OF MEDIUM
Escherichia coli (25922)	Luxuriant	Pink to pinkish red
Enterobacter aerogenes (13048)	Luxuriant	Pink to pinkish red
Salmonella enteritidis (13076)	Luxuriant	Colourless to orangish yellow
Staphylococcus aureus (25923)	Inhibited	
Precautions:	1. For Laboratory Use.	
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

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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.				
	2. Violet Red Bile Broth may not be completely inhibitory to gram – positive organisms. Perform Gram stain and biochemical tests as necessary to identify isolates.				
	3. The medium will grow gram- negative bacilli other than members of the Enterobacteriaceae. Perform biochemical tests to identify isolates to genus and species.				
	4. Boiling the medium for longer than 2 minutes can decrease the ability to support growth.				
	5. For optimum performance, prepare and use the medium within 24 hours.				
Use :	For detection and enumeration of coliforms from water and food.				
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
B041	26.53 gm/lit	18.84L	7.4 ± 0.2	NIL	DO NOT AUTOCLAVE