

B1043	FORMATE RICINOLEATE BROTH					
Formula						
Ingredients:			gms/lit.			
Gelatin peptone			5.00			
Lactose			5.00			
Sodium formate			5.00			
Sodium ricinoleate			1.00			
Final pH (at 25°C): 7.4± 0.2						
Directions:						
Suspend 16 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. For inoculum volume greater than one ml, use double strength medium. Distribute in tubes with inverted Durhams tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle:						
Gelatin peptone supply essential nitrogenous nutrients to the coliforms for their growth while lactose is the carbon source. Sodium formate maintains buffering conditions of the medium and also accelerates growth and gas production of Escherichia coli and related organisms. Sodium ricinoleate is a sodium salt of 11 Hydroxyheptadec-8-ene-1-Carboxylic acid which suppresses the growth of contaminating organisms especially gram-positive bacteria. It is interesting to note that gas production appears earlier in this medium than in other media under same conditions.						
QC Tests – (I) Dehydrated Medium						
Colour:			Light yellow to light brown			
Appearance:			Homogeneous Free Flowing powder			
(II) Rehydrated medium						
pH (post autoclaving/heating) :			7.4± 0.2			
Colour (post autoclaving/heating):			Light amber			
Clarity (post autoclaving/heating):			Clear			
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18-24hours at 35-37°C						
MICROORGANISM (ATCC)		GROWTH		GAS		
Enterobacter aerogenes (13048)		good-luxuriant		positive reaction		
Escherichia coli (25922)		good-luxuriant		positive reaction		
Salmonella Typhi (6539)		inhibited		---		
Staphylococcus aureus (25923)		inhibited		---		
Bacillus subtilis (6633)		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:		It is recommended for detection of coliform bacteria in milk, water and other material of sanitary importance.				
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
B1043		16.0g/l	31.25L	7.4 ± 0.2	Nil	121°C / 15 minutes

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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