BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B197	GN BROTH, HAJNA	
Formula		
Ingredients:	gms/lit.	
Tryptose	20.00	
Dextrose	1.00	
Mannitol	2.00	
Sodium citrate	5.00	
Sodium deoxycholate	0.50	
Dipotassium phosphate	4.00	
Monopotassium phospha	ite 1.50	
Sodium chloride	5.00	
Final pH (at 25°C): 7.0	<u>+</u> 0.2	

Directions:

Suspend 39 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely Dispense in test tubes. Sterilize by autoclaving at 115°C (10 lbs pressure) for 15 minutes. AVOID EXCESSIVE HEATING.

Principle:

The medium contains tryptose, which provides amino acids and other nitrogenous substances to support bacterial growth. The combination of sodium citrate and sodium deoxycholate inhibit gram-positive and some gram-negative bacteria such as coliforms. Phosphates serve as a buffering system. Sodium chloride maintains osmotic equilibrium. The higher concentration of mannitol over dextrose limits the growth of Proteus and enhances growth of mannitol fermenting Salmonella and Shigella Proteus, Pseudomonas and coliforms do not overgrow Salmonella and Shigella in GN Broth during the first 6 hours of incubation.

Colour : Cream to yellow	QC Tests - (I)Dehydrated Medium									
Image: Process	Colour:	Colour:			Cream to yellow					
pH (post autoclaving/heating): 7.0 ± 0.2 Colour (post autoclaving/heating): Light amber Clarity (post autoclaving/heating): Clear to very slightly opalescent (III)Q.C. Test Microbiological Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours. MICROORGANISM (ATCC) GROWTH IN GRWOTH AFTER 24 HRS. ON GOLOUR OF COLONY GN BROTH MACCONKEY AGAR (B238) Salmonella typhimurium (14028) Good Good Colourless Shigella flexneri (12022) Good Good Colourless Escherichia coli (25922) Good Good Pink-red with bile ppt Proteus mirabilis (25933) Good Good Colourless Pseudomonas aeruginosa (27853) Good Good Colourless 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: For selective enrichment of gram-negative organisms of the enteric group. Storage: Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C. Packing: Total autoclaving/heating specific propers of the colourless organisms of the enteric group. Sterilization	Appearance :	Appearance :			Homogeneous Free Flowing powder					
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Page 02 of 02

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