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 phosphate	1.50
Sodium chloride	5.00
Final pH (at 25°C) : 7.0 ± 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.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	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 GN BROTH	GRWOTH AFTER 24 HRS. ON MACCONKEY AGAR (B238)	COLOUR OF COLONY
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
Enterococcus faecalis (19433)	None – poor	None – poor	Pale pink-red

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 :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B197	39 g/l	12.82L	7.0 ± 0.2	nil	115^{0}C / 15 minutes

Refer disclaimer Overleaf

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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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