

TECHNICAL SHEET

B648	NITROFURANTOIN BROTH BASE				
Formula					
Ingredients : gms/lit.					
Peptic digest of animal tissue	7.50				
Casein enzymic hydrolysate	7.50				
Sodium chloride	5.00				
Final pH (at 25°C)	7.2 ± 0.2				
Directions :					
Suspend 20 grams in 1000 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 room temperature and aseptically add 50 ml sterile 0.2% nitrofurantoin solution. Mix well and dispense in tubes or flasks as desired. Sterile nitrofurantoin solution (0.2%) is prepared by dissolving 1 gm Nitrofurantoin in 500 ml polyethylene glycol 300					
Principle :					
Casein enzymic hydrolysate and peptic digest of animal tissue provide the essential nutrients especially nitrogenous sources. Nitrofurantoin, is a synthetic antibacterial agent which is effective against most common gram-negative and gram-positive urinary tract pathogenic bacteria.					
QC Tests – (I)Dehydrated Medium					
Colour :	Cream to yellow				
Appearance :	Homogeneous Free Flowing powder				
(II)Rehydrated medium					
pH (post autoclaving/heating) :	7.2 ± 0.2				
Colour (post autoclaving/heating) :	With added nitrofurantoin Fluorescent yellow coloured				
Clarity (post autoclaving/heating) :	Clear solution				
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 18 – 24 hrs at 35 – 37°C.					
MICROORGANISM (ATCC)	GROWTH				
Escherichia coli (25922)	inhibited				
Pseudomonas aeruginosa (27853)	good-luxuriant				
Staphylococcus aureus 925923)	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 used for the selective enrichment and isolation of Pseudomonas species.				
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
B648	20.00 g/l	25.00L	7.2 ± 0.2	sterile 0.2% nitrofurantoin solution	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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