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	121^0C / 15 minutes

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