

BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

B1400	BUFFERED PEPTONE WATER					
Formula						
Ingredients:			gms/lit.			
Enzymatic digest of casein			10.00			
Sodium chloride			5.00			
Disodium hydrogen phosphate.12H2O			9.00			
Potassium dihydrogen phosphate			1.50			
Final pH (at 25°C) : 7.0 ± 0.1						
Directions :						
Suspend 20.07 grams (equivalent weight of dehydrated medium) in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Buffered Peptone Water contains enzymatic digest of casein as a source of carbon, nitrogen, vitamins and minerals. Sodium Chloride maintains the osmotic balance. Phosphates buffer the medium.						
QC Tests - (I)Dehydrated Medium						
Colour :		Cream to Pale yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.0 ± 0.1				
Colour (post autoclaving/heating) :		Light yellow to light amber				
Clarity (post autoclaving/heating) :		Clear solution				
(III)Q.C. Test Microbiological: ISO 6579 & ISO 21528						
Cultural characteristics observed after 18 -24 hrs at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH				
Salmonella enteritidis (13076)		Luxuriant				
Salmonella typhimurium (14028)		Luxuriant				
Escherichia coli (25922)		Luxuriant				
Escherichia coli (8739)		Luxuriant				
Pseudomonas aeruginosa (27853)		Luxuriant				
Cronobacter sakazakii (29544)		Luxuriant				
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. 2. The types and numbers of competing flora in the test sample can affect recovery and may overgrow salmonellae.				
Use :		It is used as pre-enrichment medium for increasing the recovery of injured Salmonella species from foods prior to selective enrichment and isolation. The composition and performance criteria of this medium are as per the applications laid down in ISO 6579-2017 , ISO 6887 and ISO 21528-2017.				
Storage :		Dehydrated medium- Below 30°C. Prepared mediums- Between 2 - 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1400		20.07g/l	24.912L	7.0 ± 0.2	NIL	121°C / 15 minutes