

TECHNICAL SHEET

B1400	BUFFERED PEPTONE WATER				
Formula					
Ingredients:		gms/lit.			
Enzymatic digest of casein		10.00			
Sodium chloride		5.00			
Disodium hydrogen phosphate, dodecahydrate		9.00			
Potassium dihydrogen phosphate		1.50			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions:					
Suspend 20.07 grams (equivalent weight of dehydrated medium) in 1000 ml purified/ 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 ± 0.2			
	Colour (post autoclaving/heating):	Cream to Pale yellow			
	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.(Recovery is observed on XLD Agar)				
	MICROORGANISM (ATCC)	GROWTH			
	Salmonella enteritidis (13076)	Luxuriant			
	Salmonella typhimurium (14028)	Luxuriant			
	Escherichia coli NCTC(12900)	Luxuriant			
	Salmonella typhy (6539)	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 :	Recommended as a pre-enrichment medium of Enterobacteriaceae organisms such as Salmonella and Cronobacterium species from food and animal feeding stuffs, water, milk, milk products and other products. The composition and performance criteria of this medium are as per the specifications laid down in ISO 6579-1:2017, ISO 6887-1:2017, ISO 21528-1:2017, ISO 22964:2017, ISO19250:2010, ISO 11133:2014 & A1:2018.				
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

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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