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 ± 0.2	

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 ± 0.2
	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 typhi (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 :	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 & ISO 22964:2017.
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	121^0C / 15 minutes

Rev: January 2025