

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

BH955	BUFFERED SODIUM CHLORIDE PEPTONE SOLUTION PH 7.0	
Formula		
Ingredients:		gms/lit.
Peptone (meat or casein)		1.00
Sodium chloride		4.30
Disodium hydrogen phosphate dihydrate		7.23
Potassium dihydrogen phosphate		3.60
Final pH (at 25°C) : 7.0 ± 0.2		
Directions :		
Suspend 14.64 grams (the equivalent weight of dehydrated medium per litre) in 1000 ml purified /distilled water. Heat if necessary, to dissolve the medium completely. For preparation of nonfatty products insoluble in water, add 0.1 % w/v Polysorbate 80 to assist the suspension of poorly wetttable substances. Dispense in tubes or flasks or as desired and sterilize by autoclaving at 15 lbs pressure 121°C for 15 minutes or as per validated cycle.		
Principle :		
Buffered Peptone Water is a pre-enrichment medium designed to help recovery of sub-lethally damaged Salmonellae before transfer to a selective medium. This pre-enrichment medium is free from inhibitors and is well buffered and provides conditions for resuscitation of the cells that have been injured by processes of food preservation. Pre-enrichment in Buffered Peptone Water at 37°C for 18 hours before selection in Tetrathionate Brilliant Green Bile Broth (B084) showed superior results compared with direct selection method. The composition of Buffered Peptone Water with NaCl medium is as per IP and EP specifications recommended to dilute the sample for microbial examination. Depending on the amount of fat in the sample to examine the kind and quantity of emulsifying agent to be used. These pre-enrichment media contain peptone as a source of carbon, nitrogen, vitamins and minerals. Sodium chloride maintains the osmotic balance and phosphates buffer the medium. The broth is rich in nutrients and produces high resuscitation rates for sub-lethally injured bacteria and supports intense growth. The phosphate buffer system prevents bacterial damage due to changes in the pH of the medium.		
QC Tests - (I)Dehydrated Medium		
Colour :		White to Cream
Appearance :		Homogeneous Free Flowing powder
(II)Rehydrated medium		
pH (post autoclaving/heating) :		7.0 ± 0.2
Colour (post autoclaving/heating) :		Colorless to pale yellow
Clarity (post autoclaving/heating) :		Clear
(III)Q.C. Test Microbiological		
Cultural characteristics observed after 18 -24 hrs at 35-37°C.		
MICROORGANISM (ATCC)		GROWTH
Salmonella typhimuriam (14028)		Good-Luxuriant
Salmonella abony (NCTC 6017)		Good-Luxuriant
Staphylococcus aureus (25923)		Good-Luxuriant
Staphylococcus aureus (6538)		Good-Luxuriant
Escherichia coli (25922)		Good-Luxuriant
Escherichia coli (8739)		Good-Luxuriant
Escherichia coli (NCTC9002)		Good-Luxuriant
Pseudomonas aeruginosa (27853)		Good-Luxuriant
Pseudomonas aeruginosa (9027)		Good-Luxuriant
Candida albicans (10231)		Good-Luxuriant
Candida albicans (2091)		Good-Luxuriant
Bacillus subtilis (6633)		Good-Luxuriant
Micrococcus luteus (9341)		Good-Luxuriant
Precautions :	1. For Laboratory Use.	
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	
	3. May be Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep	

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	container tightly closed.				
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 diluent for carrying microbial limit test from pharmaceutical products in accordance to microbial limit testing by harmonized system of (USP/BP/EP/JP).				
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
	BH955	14.64 g/l	34.153 L	7.0 ± 0.2	Nil