



Dehydrated Culture Media Technical Information

BUFFERED PEPTONE WATER G127 SAMPLEREADY™ GAMMA IRRADIATED SOLUBLE POUCH

USE: Buffered Peptone Water is used as a pre-enrichment medium for the isolation of *Salmonella* sp. from food products, particularly injured microorganisms.

DESCRIPTION: Food preservation techniques such as heat, desiccation, preservatives, high osmotic pressures or pH changes can inversely affect *Salmonella* microorganisms¹. Pre-enrichment with Buffered Peptone Water results in repair of compromised microorganisms by maintaining a high pH for 24 hours³. The high pH capacity is especially useful for vegetable samples.

FORMULA* per Liter

Casein Peptone	10.0g
Sodium Chloride	5.0g
Disodium Phosphate.....	3.5g
Monopotassium Phosphate	1.5g
Total.....	20g

*Adjusted and/or supplemented as required to meet performance criteria.

Final pH: 7.2 ± 0.2 at 25°C

PREPARATION: Soluble Pouches are hermetically sealed in a Mylar Bag. Aseptically open the Mylar Bag and carefully remove the Soluble Pouch using sterile forceps or tweezers. The Soluble Pouches are single use. Once removed from the Mylar Bag the Soluble Pouches should be used immediately. Mix the Soluble Pouches in Purified or Sterile water with repeated stirring to dissolve completely. Use one liter of Purified or Sterile Water per 20g of dry media in the Soluble Pouch. When completely dissolved, the Buffered Peptone Water should be free of contamination and ready for testing applications. Testing should include measuring for pH and testing performance with Quality Control Organisms.

QUALITY CONTROL SPECIFICATIONS:

1. The Mylar Bag is hermetically sealed.
2. The Soluble Pouch is dry and the inclusive powder is beige and free-flowing.
3. Visually the prepared medium is light amber; clear to slightly hazy.
4. Expected cultural response after 18-24 hours at 35°C.

Microorganism	CFU	Growth
<i>Escherichia coli</i> ATCC™ 25922	10 – 10 ³	+
<i>S. enterica</i> ser. Typhimurium ATCC™ 14028	10 – 10 ³	+

STORAGE: Store the sealed Mylar Bag containing the Soluble Pouches in a cool dry environment at 2 to 30°C. Once the Mylar bag is opened, use all pouches within the bag as soon as possible. The unused pouches in the Mylar Bag can be stored for the duration of the shelf life, if the Bag is properly sealed and stored. The Soluble Pouches should be discarded if there has been a change from the original light beige color, or the inclusive powder is not free flowing.

LIMITATIONS AND PRECAUTIONS: Soluble film will dissolve in warm water (37°C to 42°C) within minutes with moderate agitation; however culture media may take up to an hour to completely dissolve. Use prepared media within 3 hours for best results.

FOR LABORATORY USE ONLY

SIZES AVAILABLE: 4.5g (225mL), 22.5g (1.125L), 30g (1.5L), 68g (3.4L)

REFERENCES:

1. FDA BAM, 8th Edition, Revision A, 1998. Updated and revised: 29-DEC-2000.
2. Bull. WHO, 48:167-174, 1973.
3. J. Food Technol., 12:85-91, 1977.