



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

*Medium may be adjusted and/or supplemented as required to meet performance criteria.

Final pH: 7.2 ± 0.2 at 25°C

PREPARATION: Carefully open the Mylar bag and aseptically transfer one soluble pouch to a container of sterile water and mix. Use 1L of sterile water per 20g of dry media with repeated stirring or agitation to dissolve completely. Once dissolved, the Buffered Peptone Water is ready for testing applications. Testing should include measuring pH and testing performance with Quality Control organisms.

STORAGE: Store the sealed Mylar bag in a dry environment at 2 to 30°C.

QUALITY CONTROL SPECIFICATIONS:

Packaging – The Mylar Bag is hermetically sealed.

Dehydrated Appearance – The soluble pouch is dry, and the inclusive powder is cream-white to light beige, homogeneous and free-flowing.

Prepared Appearance – Light amber; clear to slightly hazy.

Expected Cultural Response – Good growth after 18-24 hours at 35°C:

Microorganism	CFU	Growth
<i>Escherichia coli</i> ATCC™ 25922	10 – 100	+
<i>S. enterica</i> ser. Typhimurium ATCC™ 14028	10 – 100	+
<i>S. enterica</i> ser. Enteritidis ATCC™ 13076	10 – 100	+

LIMITATIONS AND PRECAUTIONS: Soluble pouch will dissolve in warm water (37°C to 42°C) within an hour based on agitation. A commercial agitator is recommended to dissolve the soluble pouch within minutes.

Once opened, use all pouches within the Mylar bag as soon as possible. Prepared media should be used within 3 hours for best results.

The soluble pouches should be discarded if there has been a change from the original color, or the inclusive powder is not free flowing.

FOR LABORATORY USE ONLY.

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

PACKAGING: See individual product Technical Information sheets for specific packaging formats.

Additional configurations are available upon request.

REFERENCES:

- Edel W, Kampelmacher EH. *Bull. World Health Org.* 1973; **48**:167-174.
- Sadovski, AY. *J. Food Technol.*, **12**:85-91, 1977.
- FDA BAM, 8th Edition, Revision A, 1998. Updated and revised: 29-DEC-2000.