



SampleReady® Culture Media
Instructions for Use

NEUTRALIZING BUFFERED PEPTONE WATER (G610-16.2) SampleReady® GAMMA IRRADIATED SOLUBLE POUCH

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

DESCRIPTION: Carry-over of common industrial antimicrobial interventions may affect the survival and detection of pathogenic *Salmonellae* in standard Buffered Peptone Water. A neutralizing buffer formulation was developed by the USDA Agricultural Research Service with the capability of neutralizing specific antimicrobial interventions. Pre-enrichment with Neutralizing Buffered Peptone Water results in repair of compromised microorganisms by maintaining a high pH for 24 hours.⁽³⁾

FORMULA:

Buffered Peptone Water (BPW).....	20.0 g/L
Sodium Bicarbonate	12.5 g/L
Lecithin.....	7.0 g/L
Sodium Thiosulfate.....	1.0 g/L
Total	40.5 g/L

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

Final pH: 7.7 ± 0.5 at 25°C

PHYSICAL APPEARANCE:

Dehydrated Appearance – The powder is beige, homogenous, and free flowing encapsulated in a clear soluble film pouch.

Prepared Appearance – Opaque, cloudy, and light yellow to light amber in color.

PROCEDURE: Carefully open the Mylar bag and aseptically transfer one soluble pouch to a container with 400ml sterile Microbiologically Suitable (MS) water and mix. Dissolve completely with repeated stirring or agitation. Once dissolved, the medium is ready for testing applications.

Consult reference methods for complete procedures.

EXPECTED RESULTS: Cultural response after 18-24 hours in aerobic atmosphere at 37°C (*Incubated in microaerobic atmosphere at 42°C for 24-48 hours).

Microorganism	CFU	Growth
<i>E. coli</i> ATCC™ 25922	10 - 10 ²	+
<i>S. enterica</i> ser. Typhimurium ATCC™ 14028	10 - 10 ²	+
<i>S. enterica</i> ser. Enteritidis ATCC™ 13076	10 - 10 ²	+
<i>C. jejuni</i> * ATCC™ 33291	10 - 10 ²	+

STORAGE: Store the sealed Mylar bag at 2-30°C in a dry environment for up to the expiration date.

LIMITATIONS: This product is not intended to be used for the diagnosis of human disease. nBPW is a non-selective medium which may cause overgrowth of competing flora in the test sample to affect recovery of *Salmonellae*.

Once opened, use all pouches within the Mylar bag as soon as possible. Once hydrated, the media should be used immediately. The pouches should be discarded if there has been a change from the original color, or the encapsulated powder is not free flowing.

FOR LABORATORY USE ONLY.

SIZES AVAILABLE: 16.2g (400ml) 1 pouch per Mylar bag, or 10 pouches per Mylar bag.

PACKAGING: Each hermetically sealed Mylar bags contains soluble pouch(es) containing 16.2g of dehydrated culture media each.

Additional configurations are available upon request.

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.
4. USDA-FSIS. June 8, 2016. FSIS Notice 41-16. Washington D.C.

Millennium LifeSciences, Inc.
CultureMediaConcepts®
970 E. Orangethorpe Ave, Unit A
Anaheim, CA 92801
TEL: (714) 773-1726
FAX: (714) 773-1793