PRODUCT INFORMATION

Buffered Peptone Water

Cat. No. B02-121

YOUR MEDIA IS OUR CULTURE

ALPHA BIOSCIENCES

Date of Issue:
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DESCRIPTION

Buffered Peptone Water is used for preenriching damaged *Salmonella spp*. from various food sources. Edel and Kampelmacher noted that food preservation techniques such as heat, desiccation, high osmotic pressures or pH changes can cause sub-lethal injury to *Salmonella* microorganisms. Preenrichment with Buffered Peptone Water allows for repair of cell damage by maintaining a high pH over the preenrichment period. The high pH capacity is especially useful for vegetable samples which have a low buffering capacity.

Formula* per Liter:

Peptone……10.0g
Disodium Phosphate……3.5g
Sodium Chloride……5.0g
Monopotassium Phosphate……1.5g

Final pH: 7.2 ± 0.2 at 25°C

* *Grams per liter may be adjusted or formula supplemented toobtaindesired performance.*

PREPARATION

Mix 20 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is clear and pale yellow.
3. Expected cultural response after 18-24 hours at 35°C.

Organism:	**Result:**
Escherichia coli ATCC® 25922	Growth
Salmonella enteritidis ATCC® 13076	Growth
Salmonella typhimurium ATCC® 14028	Growth

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.

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