

PRODUCT INFORMATION

Buffered Peptone Water

Cat. No. B02-121

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 (g/L)

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

Final pH: 2.0 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 25 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
<i>Escherichia coli</i> ATCC 25922	Good Growth
<i>Salmonella enteritidis</i> ATCC 13076	Good Growth
<i>Salmonella typhi</i> ATCC 19430	Good Growth
<i>Salmonella typhimurium</i> ATCC 14028	Good 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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