BUFFERED PEPTONE WATER (ISO)

CODE: CM1049

Typical Formula*	**gm/litre**
Enzymatic digest of casein	10.0
Sodium chloride	5.0
Disodium hydrogen phosphate (anhydrous)	3.5 †
Potassium dihydrogen phosphate	1.5
pH 7.0 ± 0.2 @ 25°C	

*** Adjusted as required to meet performance standards**
† equivalent to 9.0 g of disodium hydrogen phosphate dodecahydrate

Directions
Add 20.0g of Buffered Peptone Water (ISO) to 1 litre of distilled water. Mix well and distribute into final containers. Sterilise by autoclaving at 121°C for 15 minutes.

Description
Buffered Peptone Water (ISO) is a non-selective pre-enrichment medium for the isolation of *Salmonella* species from food and associated samples. As *Salmonella* may be present in low numbers and/or sub-lethally injured pre-enrichment allows the cells time to repair and multiply before being introduced to selective culture, thereby improving the chances of recovery from the sample.

The medium is designed to be used prior to selective enrichment in MKTTn Broth CM1048 with Novobiocin Selective Supplement SR0181 and RVS Broth CM0866 according to ISO 6579:2002 +A1:2007[1].

Method of use
The sample is added to Buffered Peptone Water (ISO) at a ratio of 1:10, and incubated at 37 ± 1°C for 16-20 hours before transfer to selective enrichment media[1].

Storage conditions and Shelf life
Store the dehydrated medium at 10-30°C and use before the expiry date on the label.
Prepared medium may be kept for up to 2 weeks at room temperature.

Appearance
Dehydrated medium: Straw coloured, free-flowing powder
Prepared medium: Light, straw coloured solution

Quality control

Positive control	**Expected results**
Salmonella typhimurium ATCC® 14028 *	Turbid growth
Negative control	
Uninoculated medium	No change

*** This organism is available as a Culti-Loop®**

References

1. Anon BS EN ISO 6579:2002 +A1:2007. *Microbiology of food and animal feeding stuffs Horizontal method for the detection of Salmonella spp.*