

**TM4120 BUFFERED PEPTONE WATER (MODIFIED) 500 ML****FORMULA**

Bacteriological Peptone	10.0	gm per litre
Potassium Dihydrogen Phosphate	3.0	
Disodium Hydrogen Phosphate (anhydrous)	7.0	
Sodium Chloride	5.0	

pH 7.0 ± 0.1

**DESCRIPTION**

Buffered Peptone Water is a non-selective pre-enrichment medium, used prior to selective enrichment for the isolation of **Salmonella** species from foods (1).

Low numbers and /or sub-lethally injured salmonellae may be present in the test sample. Pre-enrichment in Buffered Peptone Water allows the cells time to repair and multiply, before being introduced into selective culture, improving the chances of recovering **Salmonella** spp. from the sample (2).

**QUALITY CONTROL**

ORGANISMS: **S. hofit** MVQC 0165, **C. sakazakii** MVQC 0218 (WDCM 00214), **L.monocytogenes** MVQC 0022 (NCTC®11994), **S.aureus** MVQC 0003 (ATCC®25923), **E.coli** MVQC 0004 (ATCC®25922)

INOCULUM: As described in TFS MBD QSP1105, inoculate the specified test organisms into the medium using Working Culture B ( $\leq 10^2$  cfu). As described in QSP1105, inoculate the specified test organisms into the medium using a dilution of Working Culture B ( $\leq 10^2$  cfu).

INCUBATION: 18 - 24 hours / 35°C / O<sub>2</sub>. After incubation broths are subcultured onto HBA or TSA using a standard loop.

Incubate plates 18 - 24 hr /35°C /aerobically.

**EXPECTED RESULTS:**

<b>S. hofit</b>	Turbid broth, 4 - 5+ growth on recovery.
<b>C. sakazakii</b>	Turbid broth, 4 - 5+ growth on recovery.
<b>S.aureus</b>	Satisfactory recovery +/- 30% vs time 0
<b>L.monocytogenes</b>	Satisfactory recovery +/- 30% vs time 0
<b>E.coli</b>	Satisfactory recovery +/- 30% vs time 0

**ALSO CHECKED AND RECORDED:**

1. Batch number correct
2. Colour
3. Clarity
4. Final pH 7.0 ± 0.1

**STORAGE**

A shelf life of 12 months applies when this product is stored at 2° - 30°C in its original packaging.

**REFERENCES**

1. ISO 6579:2002 (E). 2002. *Microbiology of food and animal feeding stuffs — Horizontal method for the detection of Salmonella spp.* International Office for Standardization (ISO), Geneva.
2. Oxoid Technical Sheet Folio 893 – Buffered Peptone Water (ISO). Oxoid Limited, Basingstoke.