

Dehydrated Culture Medium**Thermo Scientific FitBag Buffered Peptone Water (ISO)**
For Laboratory Use Only

REF DF1049

Intended Use

The Thermo Scientific™ FitBag™ Media format enables simple, fast preparation of enrichment media and diluents.

Thermo Scientific™ Buffered Peptone Water (ISO) is a pre-enrichment medium to be used prior to selective enrichment for the isolation of *Salmonella* species from foods.

Summary and Explanation

FitBag Buffered Peptone Water (ISO) may be used as a pre-enrichment medium, prior to selective enrichment for the isolation of *Salmonella* species from foods. It also provides conditions for the resuscitation of cells that have been injured by food processing and preservation.

The medium is designed to be used prior to selective enrichment according to ISO 6579:2002 +A1:2007¹.

Typical Formula*	grams per liter
Enzymatic digest of casein	10.0
Sodium chloride	5.0
Disodium phosphate	3.5
Potassium dihydrogen phosphate	1.5

*adjusted as required to meet performance standards

Each FitBag Media bag has been given a sterilizing dose of gamma irradiation.

Physical characteristics

Colour	Straw
Colour on reconstitution	Straw
pH	7.0 ± 0.2 at 25°C
Clarity	Clear
Buffering capacity test	Passes test

Precautions

This product should only be used by trained individuals. This includes the safe disposal of used or unused reagents and as well as any other contaminated or potentially contaminated material. It is the responsibility of each laboratory to manage waste produced according to any federal, state and local applicable regulations.

Storage

Prior to use:

- Store FitBag Media at room temperature until expiry.

In-Use:

- Following the addition of water to the water compartment store for up to one week at room temperature, in the dark.
- Following powder hydration use immediately or store at Room temperature, in the dark, for up to 10 Days.

Ensure the sterility of the outlet tube is maintained.

Specimen Collection, Handling and Storage

Specimens should be collected and handled following the recommended guidelines.

Materials Required but Not Provided

- Thermo Scientific™ 0.2µm Reusable Filter (DB0200A)
- Thermo Scientific™ Dry-Bags™ Peristaltic Pump (DB2000A/DB3000A)

- Thermo Scientific™ DiluFlux™ Pro Automated Gravimetric Dilutor (DB4100A/DB4150A)
- Thermo Scientific™ Stainless Steel Bag Connector (BM9901A/DB4002A)
- Laboratory equipment as required
- Ancillary reagents and culture media
- Quality control organisms as required

Directions**Water Addition**

Using aseptic technique remove the red cap from the tube without the injection port and insert the sterile 0.2µm filter into the tube. Connect the peristaltic pump tubing to the filter and fill the bag to the required volume of 2.7, 4.5 or 9.0 litres, with water suitable for preparation of culture media.

Whilst filling the bag ensure that there are no airlocks within the inlet side of the filter. Air locks can be removed by briefly opening and closing the filter vent. Once filling has ceased, aseptically remove the filter and re-cap the tube or insert the second (individually packaged) sterile injection port.

Medium Preparation

Place the FitBag onto a flat surface and break the seal separating the dehydrated culture medium and the water by applying pressure to the water containing side. Manually agitate the FitBag Media bag to mix and completely dissolve the powder.

Sample Dilution

Media dispensing can be facilitated using an automated dilutor. Ensure dilutor tubing and connectors are sterilized prior to use.

Remove the tamper proof seal on the injection port and drill the port using a sterile bag connector. When not in use close the tubing with the attached clamp. Once empty, the bag can be disposed of with normal laboratory waste.

If the rehydrated FitBag is not consumed in a single use the bag may be sealed with the tube clamp and disconnected from the dilutor. It is recommended that the second filling port is then used to re-connect the bag for further use.

Quality Control

Tested in accordance with ISO11133:2014

Quantitative testing

<i>Escherichia coli</i>	ATCC® 25922 WDCM 00013	±30% of original count (T0/T1)
<i>Staphylococcus aureus</i>	ATCC® 13076 WDCM 00034	±30% of original count (T0/T1)
<i>Listeria monocytogenes</i>	ATCC® 13932 WDCM 00021	±30% of original count (T0/T1)

Qualitative testing

<i>Salmonella</i> Typhimurium	ATCC® 14028 WDCM 00031	Growth, good turbidity
<i>Escherichia coli</i>	ATCC® 25922 WDCM 00013	Growth, good turbidity

Note:

It is the responsibility of the user to perform Quality Control testing taking into account the intended use of the medium, and in accordance with any local applicable regulations (frequency, number of strains, incubation temperature etc.)

Performance

Performance of the FitBag Buffered Peptone Water (ISO) was evaluated using four bacterial strains including the following; *Salmonella* Typhimurium, *Salmonella* Enteritidis, *Salmonella* Nottingham and *Escherichia coli*. All organisms gave expected growth characteristics according to the current test specification in the absence of performance data.

Limitations

Atypical organisms may fail to grow, especially when low numbers are present in the sample.

Packaging

Product code	Suffix	Contents
DF1049	A	30 x 2.7L
	B	20 x 4.5L
	C	10 x 9.0L

Waste disposal

For waste disposal refer to the relevant Material Safety Data Sheet.

Bibliography

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

Symbol Legend

Symbol	Meaning
	Catalog number
	Manufacturer
	Temperature limitation (storage temp.)
	Use by (expiration date)
	Lot number
	Protect from light
	Consult instructions for use

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