

## Actero™ Buffered Peptone Water (ISO) – EZ-Media Dry Bag Product Information

Catalogue No.	Description
FCM-261	Actero™ BPW ISO (20L) – EZ-Media Dry Bag – two ports
FCM-263	Actero™ BPW ISO (5L) – EZ-Media Dry Bag – two ports

**INTENDED USE:**

Buffered Peptone Water (ISO) is used for pre-enriching damaged *Salmonella* spp. from various food sources. 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 or other detection methods, thereby improving the chances of recovery from the sample.

**Formula per Liter:**

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

**Storage Instructions:** On receipt, store the EZ-Media Dry Bag at room temperature 2 - 32°C.

**Handling:** Once filled, do not handle the product by the ports as it may damage them.

**Final pH:** 7.0 ± 0.2 at 25°C

**PREPARATION:**

**Materials not provided:** The required ancillary tubing, connectors and filters (if necessary), can be purchased separately. A peristaltic pump or dilutor is required to fill and empty the bags.

**Instructions:** Observe aseptic techniques from media preparation through to dispensing. Remove the Actero™ EZ-Media Dry Bag from its packaging, unfold and lay it flat on the bench with tubing and caps facing up. There are two tubes on the Actero™ EZ-Media Dry Bag with red caps. The “in” port does not have a connector and the “out” port has a male connector to ensure sterility while the media is being prepared and later dispensed.

When ready to prepare the media, remove the cap from the “in” tube and connect the tubing from your pump or dilutor to the bag using the “in” port. You can use already sterile deionized water or attach a filter between your pump or dispenser to sterilize deionized water during filling. In the latter case, follow the filter’s manufacturer’s instructions.

Turn off your pump or dilutor when the corresponding volume of water (5L or 20L) has been added to the Actero™ EZ-Media Dry Bag. Remove the Actero™ EZ-Media Dry Bag tube from the ancillary tubing or filter nozzle and replace the cap on the tube end. Gently massage the Actero™ EZ-Media Dry Bag until the media is completely dissolved. The prepared media in the Actero™ EZ-Media Dry Bag can be stored for up to 7 days at room temperature on the bench.

When ready to use the prepared media, remove the cap from the “out” tube (with connector) on the Actero™ EZ-Media Dry Bag, aseptically connect it to your dispensing pump and dispense the appropriate volume into your sample bags. You can directly connect the dispensing pump tubing to the connector or use the female adapter available at Salus Scientific Inc. under catalog number FCLM-028.

To enrich *Salmonella* spp. from a food sample, food ingredient or environmental swab, consult FDA:BAM, Health Canada Compendium of Methods or any other appropriate reference.

**DISPOSAL:**

Dispose of all materials used and the enrichment medium by autoclaving or according to approved practices. Ensure that all biohazard waste is disposed of according to local, municipal, provincial, state and/or federal regulations.

**PRECAUTIONS:**

Biosafety Level 2 procedures should be exercised (<https://www.cdc.gov/labs/BMBL.html>). Extreme care should be taken in handling test samples and enrichment broths. All enrichment broths may contain various pathogens.

**TERMS AND CONDITIONS:**

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**QUALITY CONTROL SPECIFICATIONS:**

1. The powder is homogeneous, free-flowing, and beige in color.
2. Visually, the prepared medium is light beige to beige and clear to trace hazy.
3. Expected cultural response is after 18-24 hours at 37°C.

Organism	Result
<i>Escherichia coli</i> ATCC® 25922	Growth
<i>Salmonella</i> Enteritidis ATCC® 13076	Growth
<i>Salmonella</i> Typhimurium ATCC® 14028	Growth