



Actero™ Buffered Peptone Water (BPW) ISO Product Information

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

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 (5x):

Casein Peptone.....10.0g
Disodium Phosphate3.5g
Sodium Chloride5.0g
Monopotassium Phosphate.....1.5g

Final pH: 7.0 ± 0.2 at 25°C

PREPARATION:

Materials not provided: The required ancillary tubing and connectors can be purchased separately.

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.

Aseptically remove the sterile filter from its separate bag. The filter has 2 male ends and there is an arrow on the filter to indicate the “in” and “out”. Connect the “in” end of the filter nozzle to the pump or dilutor tubing (used for adding the deionized water to the Actero™ EZ-Media Dry Bag). We recommend securing this connection with a tie wrap or zip tie (not provided).

Next, remove the sterile cap from the “in” tube (without connector) attached to the Actero™ EZ-Media Dry Bag and connect it to the other end of the filter nozzle to permit the flow of deionized water into your tubing. Loosen the vent valve on the filter and slowly begin to fill the filter capsule with the deionized water so that the liquid reaches the level of the vent. As soon as all excess air escapes the capsule and the deionized water reaches the level of the vent, tighten the vent valve to close it. Then, gradually increase the flow rate or pressure of the pump or dilutor to the desired value

(maximum flow rate: 350mL/min/0.1bar; maximum operating pressure: 4.1 bar).

Turn off your pump or dilutor when the corresponding volume of water (20L or 5L) has been added to the Actero™ EZ-Media Dry Bag. Remove the Actero™ EZ-Media Dry Bag tube from the 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 up to 7 days at room temperature on the bench.

The supplied filter is intended to be used only once or, if necessary, when rehydrating several bags within a short amount of time, as long as the manipulation is done aseptically. Otherwise, disconnect the filter from the pump or dilutor tubing and allocate the filter for biohazard waste disposal according to local, municipal, provincial, state and/or federal regulations.

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 FoodChek Systems Inc available 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.

QUALITY CONTROL SPECIFICATIONS:

1. The powder is homogeneous, free flowing, and beige.
2. Visually, the prepared medium is light beige to beige and clear to trace hazy.
3. Expected cultural response after 18 to 24 hours of enrichment at 35°C.

Organism	Result
<i>Escherichia coli</i> ATCC® 25922	Growth
<i>Salmonella enteritidis</i> ATCC® 13076	Growth
<i>Salmonella typhimurium</i> ATCC® 14028	Growth

