



Catalogue No.	Description
FCM-205	Actero™ MediaBox™ Universal Pre-enrichment Broth (5 Liter)
FCM-206	Actero™ MediaBox™ Universal Pre-enrichment Broth (10 Liter)
FCM-207	Actero™ MediaBox™ Universal Pre-enrichment Broth (20 Liter)

## MediaBox Universal Pre-enrichment Broth: Ready to Use

### INTENDED USE

MediaBox Universal Pre-enrichment Broth is non-selective medium used for the recovery and initial enrichment of *Salmonella* spp. and *Listeria* spp. from foods, food ingredients and environmental surfaces. With traditional methods requiring different pre-enrichments for each microorganism, Universal Pre-enrichment broth was formulated by Bailey and Cox for the recovery of sub-lethally injured strains of both *Listeria* and *Salmonella* from a single food product specimen. The medium is well buffered, containing sodium and potassium phosphates, which allow the recovery of pH sensitive bacteria. **MediaBox Universal Pre-enrichment Broth is not intended for Clinical or veterinary use.**

### SUMMARY & EXPLANATION

This medium was developed as a non-selective medium used for the recovery of *Salmonella* and *Listeria* from food products.

**Storage Instructions:** On receipt, store the MediaBox at room temperature 15 - 25°C.

### Preparation / Composition (in g/L):

Tryptone .....	5.0g
Proteose Peptone .....	5.0g
Monopotassium Phosphate.....	15.0g
Magnesium Sulfate.....	0.25g
Sodium Pyruvate .....	0.2g
Dextrose .....	0.5g
Sodium Chloride .....	5.0g
Disodium Phosphate.....	7.0g
Ferrous Ammonium Citrate .....	0.1g

### Final pH: 6.3 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

### PROCEDURE FOR MEDIABOX:

**Materials not provided:** Ancillary tubing and connectors required can be purchased separately, see list of accessory tubing and connectors itemized later in the instructions for use.

**Instructions:** Observe aseptic techniques. Stand the MediaBox in the safety cabinet with the Cap at the top.

Remove the sterile cap and replace with a suitable sterile dispensing cap and tubing set. Set-up your dispensing tubing by connecting it to a pump or dilutor you will use to control dispensing of the broth.

Have your sterile connecting tubing with suitable connector ready to link to the MediaBox. Remove the sterile caps from both the dispensing tube attached to the MediaBox and the sterile connector stopper to your dispensing tubing. Connect the two pieces to permit flow of the broth into your dispensing tubing. Turn the MediaBox on its side with the dispensing cap and tubing toward the bottom of the MediaBox on the bench. Turn on your pump or dilutor and commence dispensing the broth into blender bags, bottles, tubes or other suitable vessels.

### User Quality Control:

1. Examine initial media dispensed from the MediaBox to confirm that the liquid is not cloudy, as this could indicate bacteria contamination in the MediaBox.
2. Inspect the MediaBox upon receipt for any signs of dampness on the outer box as this could indicate leakage of broth during transport.

### RESULTS

After initial enrichment of samples spiked with *Salmonella species* or *Listeria species* at low concentrations (less than 10 cfu) for 24 hours at 35°C ± 2°C streak 10-20µl of the sample onto a suitable selective or chromogenic agar plate.

### Test Procedure

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

