



Catalogue No.	Description
FCM-110	Actero™ MediaBox™ Lactose Broth (5 Liter)
FCM-111	Actero™ MediaBox™ Lactose Broth (10 Liter)
FCM-130	Actero™ MediaBox™ Lactose Broth (20 Liter)

## MediaBox Lactose Broth: Ready to Use for the dilution of Samples

### INTENDED USE

MediaBox Lactose Broth is used for the cultivation of Salmonella and coliform bacteria from food, food ingredients and environmental surfaces.

**MediaBox Lactose broth is not intended for Clinical or veterinary use.**

### SUMMARY & EXPLANATION

This medium was developed to facilitate the nonselective enrichment of *Salmonella species* and coliform bacteria.

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

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

Enzymatic Digest of Gelatin.....5gm  
Beef Extract..... 3gm  
Lactose..... 5gm

### Final pH: 6.9 ± 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.

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

### User Quality Control:

1. Examine initial dispensed PB 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.

After initial enrichment of samples spiked with *Salmonella 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 chromogenic agar plate. The plates should show isolated colonies in streaked areas and confluent growth in areas of heavy inoculation.

Mauve colonies are *Salmonella species*, *E. coli species* are typically colorless and other Coliforms are typically blue.

For the isolation of *Salmonella species* and other bacteria from food, food ingredients, air, water or other materials consult FDA: BAM, Health Canada Compendium of Methods or any other appropriate reference.

### LIMITATIONS OF THE PROCEDURE

This ready to use Lactose Broth is intended for the cultivation of Salmonella and coliform bacteria from food, food ingredients and environmental surfaces.

