



<u>FSI Catalogue No.</u>	<u>VWR Catalogue No.</u>	<u>Description</u>
FCM-040	89522-696	<b>Actero™ MediaBox™ modified TSB Broth (5 Liter)</b>
FCM-041	89522-698	<b>Actero™ MediaBox™ modified TSB Broth (10 Liter)</b>
FCM-042	89522-700	<b>Actero™ MediaBox™ modified TSB Broth (20 Liter)</b>

MediaBox modified TSB Broth with Casamino Acids and Novobiocin ready to use for Enrichment of *E. coli* from Food, Food Ingredients and Environmental Swab Samples

**INTENDED USE**

MediaBox modified TSB broth is a partially selective broth used for the initial enrichment of *E. coli* from foods. **MediaBox modified TSB broth is not intended for Clinical or veterinary use.**

**SUMMARY & EXPLANATION**

This medium was developed to facilitate the selective enrichment of *E. coli*.

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

**Composition:**

Casein Digest Peptone..... 17.0g  
Papaic Digest of Soybean Meal..... 3.0g  
Sodium Chloride.....5.0g  
Dextrose.....2.5g  
Dipotassium Phosphate.....4.0g  
Acid Digest of Casein.....10.0g  
Bile Salts No. 3.....1.5g  
Novobiocin.....0.008g

**Final pH:** 7.3 ± 0.2 at 25°C

**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 with the Cap and dispensing tube facing up. Connect the dispensing tubing to the pump or dilutor you will use to control dispensing of the broth. Remove the sterile caps from both the dispensing tube attached to the MediaBox and the dispensing tubing now attached to your pump or dilutor.

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.

For the dilution of microorganisms consult the FDA: BAM, Health Canada Compendium of Methods or any other appropriate reference.

**User Quality Control:**

1. Examine initial dispensed broth 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 *E. coli* O157 or another STEC *E. coli* 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.

For the isolation of *E. coli* from food, food ingredients, air, water or other materials FDA: BAM, Health Canada Compendium of Methods or any other appropriate reference.

**LIMITATIONS OF THE PROCEDURE**

This ready to use broth is intended for primary enrichment. Further selective enrichment in a selective broth and or on a selective agar plate would be required to isolate a pure culture.

