



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

MediaBox modified TSB, specifically designed for the enrichment of *Escherichia coli* O157 from food.

**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* O157

**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  
Bile Salts No. 3.....1.5g  
**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 at the top.  
Set-up your dispensing tubing by connecting it to a pump or dilutor you intend to 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 *E. coli* O157 from a food sample, consult FoodChex *E. coli* O157 package insert, FDA:BAM, 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 consult FoodChex *E. coli* O157 package insert, FDA:BAM 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.

