



<u>FSI Catalogue No.</u>	<u>VWR Catalogue No.</u>	<u>Description</u>
FCM-035	89522-686	Actero™ MediaBox™ Butterfields Phosphate Diluent (5 Liter)
FCM-036	89522-688	Actero™ MediaBox™ Butterfields Phosphate Diluent (10 Liter)

MediaBox Butterfields Phosphate Diluent (BPD): Ready to Use for the dilution of Food and Food Ingredient Sample

INTENDED USE

MediaBox BPD is a Phosphate buffer solution used for the initial dilution of food and food ingredients prior to microbiological analysis. **MediaBox BPD is not intended for Clinical or veterinary use.**

SUMMARY & EXPLANATION

This diluent was specifically developed to facilitate the dilution of food and food ingredient samples prior to quantitative microbiological analysis.

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

Preparation / Composition (in g/L):

Potassium Di-hydrogen Phosphate 26.22g/L & Sodium Carbonate 7.78g/L powder is prepared as a 34g/L stock solution. 1.25ml of the stock solution is added per liter of the buffer. Magnesium Chloride is prepared as an 81.1g/L stock solution and 5ml of that stock is also added per liter of the buffer. The final solution has a pH in the range 7.2 ± 0.2.

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.

To perform quantitative dilution analysis from a food sample or food ingredient consults FDA: BAM or any other appropriate reference.

User Quality Control:

1. Examine initial dispensed BPD 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.

LIMITATIONS OF THE PROCEDURE

This ready to use buffer is intended dilution of food samples. Primary enrichment and further selective enrichment in a selective broth and or on a selective agar plate would be required to isolate a pure culture.

