

Functional Guide

Introduction:

MediaBox delivers bulk sterile ready to use broths and buffers in volumes of 5, 10 & 20L. It is designed to be drained either with a dilutor/dispenser attached or by gravity. 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.



Dilutor/Dispenser Procedure:

Observe aseptic techniques. Stand the MediaBox with the cap and dispensing tube at the top. 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 on your dispenser 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 ingredients, consult FDA: BAM or any other appropriate reference.

Gravity Dispensing Procedure:

MediaBox enrichment broths can also be dispensed using gravity feed if a dilutor/dispenser is not available. Observe aseptic techniques and perform in a sterile airflow hood if available. Turn the MediaBox on its side with the dispensing cap and tubing toward the bottom of the MediaBox on the bench. Have your blender bags, bottles, tubes or other suitable vessels ready to fill. Pinch the connector tube with your fingers or a clamp, remove the end plug from the connector and start filling your bags, bottlers or tubes. You can modify or stop the flow of broth or buffer using a pinch with your fingers or a clamp. As the MediaBox is draining you will find you have to elevate the back of the box to maximize the volume available for dispensing. You can achieve this by holding the back of the box up to create an angle, or by placing an angled block to hold the box in the tilted position to best maximize the volume of broth or buffer you can easily dispense from the MediaBox (see pictures below).



User Quality Control

It is crucial to examine initial dispensed broth from the MediaBox to confirm that the liquid is not cloudy, as this could indicate bacterial contamination of the MediaBox enrichment broth. Upon arrival, *immediate inspection* of the MediaBox is crucial to report any signs of dampness, or forms of contamination before signing off the delivery. Open the dust cover and inspect the inside. Any crinkles on the outer box could indicate a breakage in the bladder. Take pictures and notify technical services immediately after a damaged box, or contamination, sighting.



*Shipping, handling and storage practices without care can cause leakages and damaged bladders.

Storage Instructions: MediaBox is stored at room temperature.

It is possible to refrigerate MediaBox bladders, but it is recommended to remove the cardboard which sweats in colder environments.

Stacking Instructions: MediaBox 20L should be only stacked 4 boxes high. Higher stacks create exponential pressure on the bladders below. Be sure to have all arrows pointing upwards. (See right).



Materials not provided:

Ancillary tubing, connectors, plastic clamps and an angle tool to elevate the back of the box for maximum use of the broth or buffer available inside the MediaBox are available and can be purchased separately.

Product Code:

68-A0001/68-A0002

Description:

An 8mm/6mm Internal Diameter Silicone Tubing Set (Sterile). Five feet of silicone tubing with female adapter, capped in a sealed bag.



68-A0004/68-A0003

An 6mm/8mm Internal Diameter Silicone Tubing Set (non-sterile). Five feet of silicone tubing with female adapter, capped in a sealed bag.



**68-A0005

A female adapter, capped (non-sterile) for 8mm Internal Diameter tubing.



**68-A0006

A female adapter, capped (non-sterile) for 6mm Internal Diameter tubing



68-A0007

A red cap to stop the flow of broth from MediaBox tubing.

**Customer's own tubing required.

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