

# Mixed4Sure™ Bottom Mount – M4SB



**Mixed4Sure™ Bottom Mount is an aseptic, closed-system mixing platform that offers low shear and vigorous mixing. Available in several volumes and custom configurations, enabling it to be used in a variety of mixing steps.**

- Performance extensively verified
- Detailed E&L according to BPSA guidelines
- Cap2V8® closure integrated

## Features

## Benefits

### 4-Blade Bottom-Mounted Impeller

- Extremely low minimum mixing volume: 2–10% (depending on bottle volume)
- Able to efficiently mix viscous solutions:  $\leq 500$  cps
- Excellent performance in liquid and powder mixing scenarios: <42 sec for 20 mg/ml NaCl
- Powerful mixing: for powder–liquid and viscous solutions
- Low shear mixing: protein degradation minimized

### Cap2V8® Integration

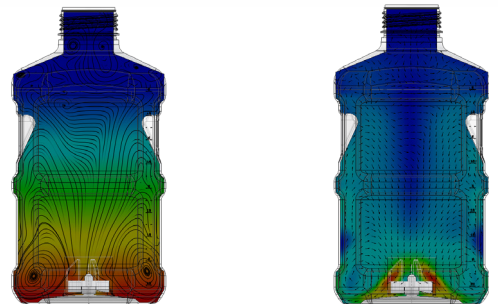
- One-piece molded cap design with continuous flow path
- Last Drop™ rigid dip tube ensuring >99.9% product recovery (worst case)

### PharmaTainer™

- Available in PC or PET depending on application needs
- Cubical geometry enhances product turnover, further optimizing mixing kinetics
- Suitable for freeze and thaw processes ( $-52^{\circ}\text{C}$ )

## Computational Fluid Dynamics (CFD)

CFD is a technique that enables simulation of fluid motion in a system. SaniSure® has used this method to provide an indication of mixing performance of the Mixed4Sure™ Bottom Mount. In one experiment this analysis demonstrated that the shear stresses created in M4SB did not exceed  $10^3 \text{ s}^{-1}$  and are significantly below the threshold required for protein degradation ( $10^7$ – $10^8 \text{ s}^{-1}$ ).





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## Materials

- PharmaTainer™: Polycarbonate (PC) or Polyethylene Tetrathalate (PET)
- Cap2v8®: Polypropylene (PP)
- Last Drop™ dip tube: Polypropylene (PP)
- Impeller : PEEK & Polyphenylsulfone (PPSU)
- Powder Funnel Port: Polycarbonate

## Packaging

- Double-bagged and labelled in an ISO Class 7 cleanroom

## Sterilization

- Gamma radiation compatible (@50kGys)
- Sterility assurance level 10<sup>-6</sup>

## Applications

- Buffer & media preparation
- Ultrafiltration/diafiltration
- Resuspension/homogenization
- Compounding

## Ordering

Product Code	Description
<b>Basic Configuration &amp; Small Volume [CONFIG A]</b>	
SS64004S	MIXED4SURE M4SB 0.5L PC
SS64039S	MIXED4SURE M4SB 0.5L PET
SS64020S	MIXED4SURE M4SB 1L PC
SS64049S	MIXED4SURE M4SB 1L PET
SS64021S	MIXED4SURE M4SB 2L PC
SS64050S	MIXED4SURE M4SB 2L PET
SS64000S	MIXED4SURE M4SB 5L PC
SS64035S	MIXED4SURE M4SB 5L PET
SS64005S	MIXED4SURE M4SB 10L PC
SS64040S	MIXED4SURE M4SB 10L PET
SS64010S	MIXED4SURE M4SB 20L PC
SS64045S	MIXED4SURE M4SB 20L PET
<b>Basic Configuration with Powder Funnel Port [CONFIG B]</b>	
SS64001S	MIXED4SURE M4SB 5L PC FP
SS64036S	MIXED4SURE M4SB 5L PET FP
SS64006S	MIXED4SURE M4SB 10L PC FP
SS64041S	MIXED4SURE M4SB 10L PET FP
SS64011S	MIXED4SURE M4SB 20L PC FP
SS64046S	MIXED4SURE M4SB 20L PET FP

### 1. Inlet

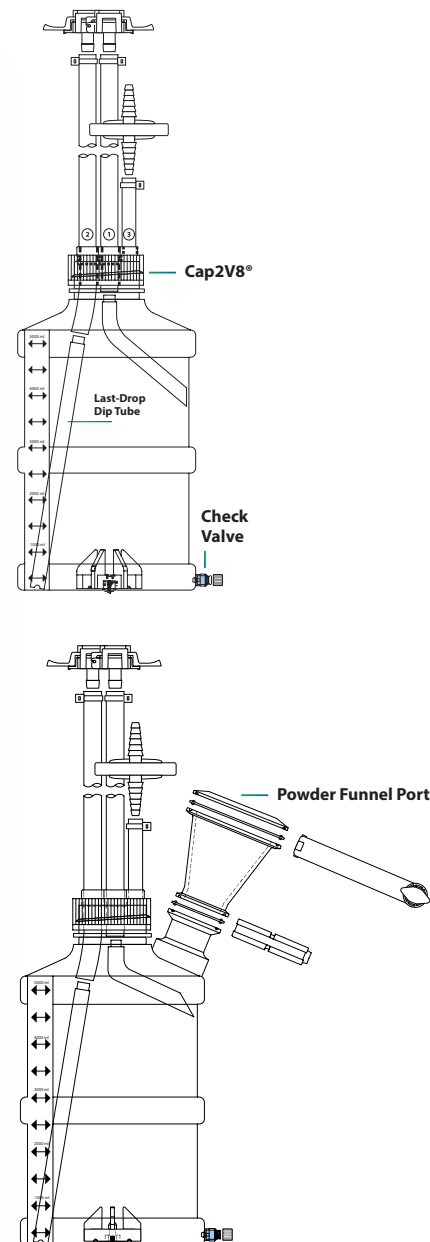
- Aseptiquik S (PC)
- CellGyn® 3/8" x 5/8" (TPE) 18"
- PP Rigid DipTube (PP)

### 2. Outlet

- Aseptiquik S (PC)
- CellGyn® 3/8" x 5/8" (TPE) 18"
- PP Rigid DipTube (PP)

### 3. Vent

- Vent filter (PP)
- CellGyn® 1/4" x 1/2" (TPE) 11"



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