

# VueLife™ FEP Bag

Catalog Number: 32-AC (Adherent Culture)

## Dimensions

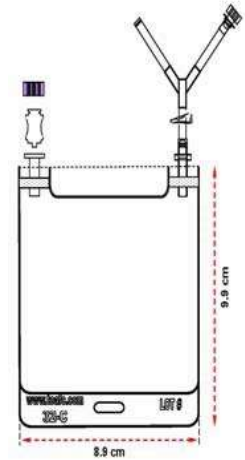
- Volume = 32 ml at 1 cm thick
- Capacity = 150 ml
- Outside (including port) = 8.9 cm x 9.9 cm
- Inside = 8.2 cm x 5.3 cm
- Surface area (both interior sides) = 87 cm<sup>2</sup>
- Tare Weight = 17 grams

## Permeability

- O<sub>2</sub>(gas)(cc/day@37°C) = 26.8
- CO<sub>2</sub>(gas)(cc/day@37°C) = 61.7
- N<sub>2</sub>(gas)(cc/day@37°C) = 10.0
- H<sub>2</sub>O(liquid)(cc/day@37°C) = 0.005

**Description:** This Exclusive AFC Adherent Culture (AC) container is made from the highest quality USP Class VI materials. The unique design allows access to the culture in a closed system environment with the use of sterile docking equipment. The high permeability to oxygen and carbon dioxide allows respiration without being open to contamination. Pre-attached tubing permits sterile docking and recovery of individual segments without breaking sterility.

- AFC AC bags are unique in that the interior of the bags has been treated with electronic corona discharge in the same manner that is used for other tissue culture flasks. This permits reversible adherence of cells and proteins.
- Adherence can be reversed by infusing air into the bag and permitting the interior surface to dry. Drying takes less than one minute and is readily apparent by visual observation. To release all cells, it is necessary to dry both sides of the bag by turning the bag over to allow the air to dry the opposite side.
- The bag is not coated; corona discharge does not add any coating to the bag. Corona discharge rearranges chemical bonds on the surface of the bag to produce higher surface energy that is evident by being "wettable". The surface energy exceeds 40 dynes per square centimeter.
- Corona-induced surface energy is lost when the surface is exposed to air, that is the release mechanism.
- Connection to the bag is by means of sterile docking to the PVC tubing or connection via a female luer port.
- The Needle-less Injection Site provides safe and aseptic access to the contents for feeding or sampling. It is swabable and mates with standard male luer fittings or needle adapters.
- Small volumes of cultures may be started in portions of the bag that are partitioned by external clamps. The clamps may be moved to increase the volume as the culture expands and feeding is required.
- The bag is non-reactive with all chemicals including DMSO and DMF.
- Each container is individually tested and inspected.
- Containers are supplied with a Sterility Assurance Level (SAL) of 10<sup>-6</sup>.



**Applications:** The containers are suitable for the culture and the maturation of dendritic cells. These culture bags are also used for the expansion of cord blood and for other medical and industrial applications. The FEP material permits direct U.V. and I.R. irradiation of the contents of the bags without breaking sterility.

**Bag Material:** All material conforms to USP Class VI.

- The bag and all materials are (ADCF) animal-derived component free.
- The bag material is .005" thick Fluoro-ethylene-propylene (FEP).
- The bag is optically clear and transmits UV, visible, and IR light.
- The bag is non-immunogenic and free of extractable or leachable materials.

**Pre-attached Tubing:** Consists of standard PVC tubing with a Y connector. The recommended filling technique is by sterile docking to the PVC tubing.

**510(k) cleared. Inquire regarding Device Master File**

**Directions:** 033917,820.170 (a).



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