

# Optimize Your Bioprocessing with BioMark Bags®

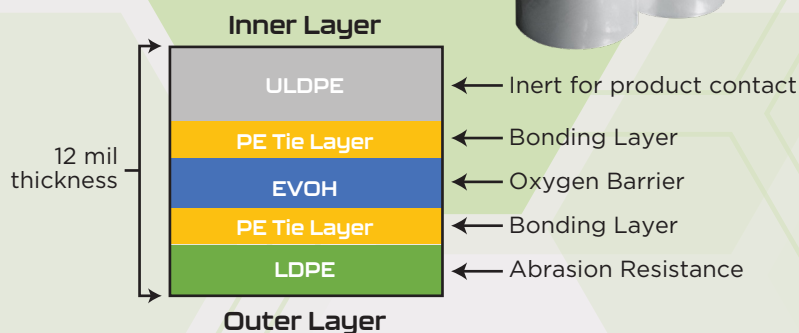
# BIOMARK BAGS

Benchmark Products 2D BioMark Bags® are single use bioprocessing bags designed for the pharmaceutical industry, ensuring high performance and reliability. They are constructed with Renolit 9101 film and feature a 5-layer design for excellent barrier protection and chemical resistance. The 12-mil thickness offers a balance of strength and flexibility.

These bags are manufactured in an ISO 7 cleanroom environment to maintain the highest standards of cleanliness and quality. They come with a canoe-type fitment, which is also crafted using Renolit 9101 film, making them easy to handle and integrate into existing systems. The multiple port sizes and custom configurations allow for versatility in bioprocessing applications. BioMark Bags® are double bagged to ensure added protection against contamination.

## Specifications:

- **Manufactured in:** ISO 7 cleanroom
- **Compliance:** FDA regulatory standards
- **Material:** Renolit 9101 film
- **Thickness:** 12-mil
- **Double bag:** Protection against contamination
- **Sterility:** Gamma compatible up to 50 kGy



**BENCHMARK**  
PRODUCTS

**Figure 1**

50mL, 250mL, 500mL

**Figure 2**

1L, 5L

**Figure 3**

10L, 20L



## Specifications

| Renolit 9101                    |   |
|---------------------------------|---|
| <b>Volume</b>                   | 50mL to 20L   |
| <b>Maximum Pressure</b>         | 2 PSI   |
| <b>Temperature Range</b>        | -45C to 60C   |
| <b>Material of Construction</b> | LDPE/EVOH   |
| <b>Contact Layer</b>            | Inert ULDPE   |
| <b>Fittings Available</b>       | Barb  |
| <b>Sterilization Method</b>     | Gamma, E-Beam   |
| <b>Film Biocompatibility</b>    | ISO 10993-4 Hemolysis<br>ISO 10993-5 Cytotoxicity<br>ISO 10993-6 Implantation test<br>ISO 10993-10 Irritation and Sensitization tests<br>ISO 10993-11 Acute Systemic Toxicity test<br>USP <85> Bacterial Endotoxins – LAL test<br>USP <87> Biological Reactivity Test in Vitro<br>USP <88> Biological reactivity testing, in vivo, class VI<br>European Pharmacopoeia tests 3.1.5<br>USP <661.1> Polyethylene Physicochemical Tests, Extractable Metals, Plastic Additives*** |
| <b>Integrity Testing</b>        | Bags are tested at regular intervals during the manufacturing process   |
| <b>Manufacturing Conditions</b> | ISO Class 7 Cleanroom   |

## Ordering

| Volume | Length | Width  | Port 1 | Port 2 | Port 3 | Number of Ports | Product Number |
|--------|--------|--------|--------|--------|--------|-----------------|----------------|
| 50 mL  | 5.000  | 4.000  | 0.125  | 0.125  | X      | 2               | BMB-50         |
| 250 mL | 9.750  | 3.900  | 0.125  | 0.125  | X      | 2               | BMB-250        |
| 500 mL | 10.250 | 5.375  | 0.125  | 0.125  | 0.125  | 3               | BMB-500        |
| 1 L    | 13.000 | 7.000  | 0.250  | 0.250  | 0.250  | 3               | BMB-1          |
| 5 L    | 16.750 | 14.500 | 0.250  | 0.250  | 0.250  | 3               | BMB-5          |
| 10 L   | 28.500 | 14.500 | 0.250  | 0.250  | 0.125  | 3               | BMB-10         |
| 20 L   | 28.500 | 19.000 | 0.250  | 0.250  | 0.250  | 3               | BMB-20         |

*BioMark Bags can be gamma-irradiated upon request. Need a different size? Customization options are available to meet your specific requirements.*

## Contact Us Today!

Discover how Benchmark Products innovative offerings can revolutionize your bioprocessing workflow. Interested in learning more about our products? Email us at [info@benchmarkproducts.com](mailto:info@benchmarkproducts.com) or call us at **1-800-432-3624**.

