

## User Guide

# Millicup™ Vacuum-Driven Bottletop Filter

SJFHM4710, SJHVM4710, SJLHM4710

## Introduction

The Millicup™ Vacuum-Driven Bottletop Filter is a disposable device that provides a fast, effective, and safe means to filter mobile phases and running buffers used in instrumentation analyses (for example, HPLC). The Millicup™ Bottletop Filter eliminates the risk of contaminant carry-over from solvent to solvent. Unlike reusable filter holders that must be washed and assembled before each use, the Millicup™ Bottletop Filter requires no assembly or clean-up. If accidentally dropped, the Millicup™ Bottletop Filter will not break, ensuring a safe environment in which to filter solvents and other hazardous solutions.

**Caution:** Operate only with an appropriate receiver flask recommended for use with vacuum.

Millicup™ Bottletop Filters are available with:

- Fluoropore™ hydrophobic polytetrafluoroethylene (PTFE) membrane for clarification and degassing of organic solvents
- Low protein-binding Durapore® polyvinylidene fluoride (PVDF) membrane for clarification and degassing of aqueous and mild organic solutions
- Low protein-binding LCR hydrophilic PTFE membrane for clarification and degassing of aqueous and organic solutions.

## Specifications

### Materials of construction

|          |  |
|----------|--|
| Housing  | Polyethylene   |
| Membrane | Millicup™-FH bottletop filter: Fluoropore™ hydrophobic PTFE membrane             |
|          | Millicup™-HV bottletop filter: Low protein-binding Durapore® PVDF membrane       |
|          | Millicup™-LH bottletop filter: Low protein-binding LCR hydrophilic PTFE membrane |

### Housing

|                 |   |
|-----------------|---|
| Dimensions      | Height: 120 mm<br>Diameter: 84 mm         |
| Connections     | Funnel inlet / universal bottletop outlet |
| Funnel capacity | 300 mL                                    |
| Color           | Natural                                   |

### Membrane

|                 |          |
|-----------------|----------|
| Pore size       | 0.45 µm  |
| Diameter        | 47 mm    |
| Filtration area | 11.5 cm² |

### Performance criteria

|                   |  |
|-------------------|--|
| Process volume    | 3000 mL                                  |
| Temperature limit | 45 °C                                    |
| Vacuum limit      | 685 mm (27 in.) Hg differential at 25 °C |

## Ordering Information

Purchase products online at [SigmaAldrich.com](https://SigmaAldrich.com).

| Description  | Qty/Pk | Catalogue No. |
|--|--------|---------------|
| Millicup™-FH Vacuum-Driven Bottletop Filter<br>0.45 µm Fluoropore™ hydrophobic PTFE membrane             | 10     | SJFHM4710     |
| Millicup™-HV Vacuum-Driven Bottletop Filter<br>0.45 µm low protein-binding Durapore® PVDF membrane       | 10     | SJHVM4710     |
| Millicup™-LH Vacuum-Driven Bottletop Filter<br>0.45 µm low protein-binding LCR hydrophilic PTFE membrane | 10     | SJLHM4710     |

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