

Ultra-Micro SpinColumns™

(5 to 25 µl Sample Volume)



a brand of Harvard Bioscience, Inc.

Quick Start Guide

Ultra-Micro SpinColumns provide rapid purification of small samples. Centrifugation or filtration under vacuum pressure can be used to run the sample through the columns. Alternatively, Ultra-Micro SpinColumns may be used as Ultra-Micro TipColumns™ by passing the sample through the column using a micro-pipette. Each package includes two 2 ml centrifuge tubes, and top caps (for gel filtration) or frit. Available with our complete range of packing materials or pre-packed with custom requested materials.

Instructions for use as SpinColumns

1. Place the column into a centrifuge tube. For gel filtration media, tap the column gently to ensure that the media is settled at the bottom and remove the blue cap).
2. Place 75 µl of water or buffer in the column and wait 10 minutes for hydration.
3. Centrifuge for 2 to 3 minutes at approximately 1000 x g.
4. Repeat Steps 2 and 3 if needed to form a compact gel.
5. Remove column from tube and blot the exterior dry.
6. Add between 5 µl and 25 µl of sample to the column.
7. Place the column in a new centrifuge tube and spin for 2 to 3 minutes at approximately 1000 x g.

For size exclusion applications:

- a) The purified sample is collected in the centrifuge tube.

For solid-phase extraction technique:

- a) Unbound sample components are removed. Place column into a new centrifuge tube, add elution buffer and centrifuge to recover desired sample.

For Detergent Removal Applications:

- a) Load 5 to 25 µl of sample into the column.
- b) Let stand at room temperature for 10 to 15 minutes.
- c) Centrifuge to collect purified sample.



Instructions for use as TipColumns

1. For Gel Filtration media, tap the column gently to ensure that the media is settled at the bottom and remove the blue cap.
2. Place 150 µl of water or buffer in the column and wait 10 minutes for hydration.
3. Dispense excess liquid.
4. Add between 5 µl and 25 µl of sample to the column.

For size exclusion applications:

- a) Aspirate sample into tip or add to top of tip.
- b) Dispense unbound sample.
- c) Repeat steps a) and b) as necessary to further remove unbound sample components.
- d) Add elution buffer and collect purified sample.

For detergent removal applications:

- a) Aspirate 5 to 25 µl of sample into the tip.
- b) Let stand at room temperature for 10 to 15 minutes.
- c) Dispense to collect the purified sample.

Micro SpinColumns are intended for single use only.

Ordering Information

| Empty SpinColumns | | |
|-----------------------------|------------|------------|
| Frit | Qty. of 24 | Qty. of 96 |
| 5 to 10 µm frit | 74-4421 | 74-4420 |
| 20 µm frit | 74-4401 | 74-4400 |
| 40 µm frit | 74-4431 | 74-4430 |
| Filled SpinColumns | | |
| Media Type | Qty. of 24 | Qty. of 96 |
| Ion Exchange | | |
| Strong Anion Q | 74-7233 | 74-7213 |
| Weak Anion PEI | - | 74-4423 |
| Weak Anion DEAE | 74-7234 | 74-7214 |
| Strong Cation SA | 74-4426 | 74-4425 |
| Strong Cation SP | 74-7235 | 74-7215 |
| Weak Cation CM | 74-7236 | 74-7216 |
| Weak Cation AA | - | 74-4427 |
| Gel Filtration | | |
| Sephadex, G-10 (700 D) | 74-7220 | 74-7200 |
| Sephadex, G-25 (5 kD) | 74-7221 | 74-7201 |
| Sephadex, G-50 (30 kD) | 74-7222 | 74-7202 |
| Sephadex, G-100 (100 kD) | 74-7223 | 74-7203 |
| Polyacrylamide, P-2 (2 kD) | 74-7224 | 74-7204 |
| Polyacrylamide, P-6 (6 kD) | 74-7225 | 74-7205 |
| Hydrophilic (Normal Phase) | | |
| Amino (NH ₂) | 74-7231 | 74-7211 |
| Cyano (CN) | 74-7230 | 74-7210 |
| PHEA | 74-7232 | 74-7212 |
| Silica | 74-7229 | 74-7209 |
| Hydrophobic (Reverse Phase) | | |
| C4 | 74-7228 | 74-7208 |
| C8 | 74-7227 | 74-7207 |
| C18 | 74-7226 | 74-7206 |
| C18 Targa | 74-7242 | 74-7243 |
| Misc. | | |
| Cellulose | 74-7237 | 74-7217 |
| Detergent Removal | 74-7238 | 74-7218 |

Key:

Q = Quaternary Ammonium (Sephacrose, Fast Flow)
 PEI = Linear Polyethyleneimine (Silica Based: Organic Compatible)
 DEAE = Cross-Linked Diethylaminoethyl (Sephacrose)
 PHEA = Hydrophilic Polyhydroxyethyl Aspartamide

SA = Sulfoethyl Aspartamide (Silica Based: Organic Compatible)
 CM = Carboxymethyl 12 µm, 300 Å (Sephacrose)
 SP = Sulfopropyl (Sephacrose, Fast Flow)
 AA = Aspartic Acid 20 µm, 300 Å (Silica Based: Organic Compatible)