

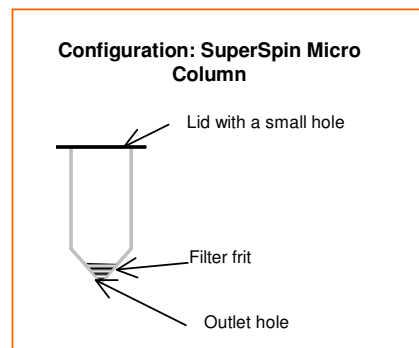
SuperSpin™ Micro Column

Data and Instructions

The SuperSpin Micro Column contains a centrifuge tube and a filter frit (as shown in the Figure). The tube is made of polypropylene and the frit made of polyethylene. The frit has a pore size of 10 µm. The device is supplied in non-sterilised condition. If sanitisation is required, a suitable reagent should be used. The column can't be autoclaved.

The working liquid volume is up to 600 µl. Provided a chromatography resin is packed in the device, the recommended resin volume is under 400 µl.

In comparison to the 96-well filter plate, it is a much flexible and cost-effective approach to process biological species of small volume. Samples from a few to dozens can be quickly processed in a standard benchtop centrifuge.



SuperSpin Micro Column is particularly useful for the following applications:

- Processing of low to high quantity of samples
- Packing of small volume of chromatography resin
- Depletion of proteins
- Screening of chromatography resin
- Screening of purification parameter
- Purification process development

Operational guidance

1. Place a SuperSpin Micro Column into a standard 1.5 ml microcentrifuge tube. Keep the cap of the 1.5 ml tube open, or cut it off if it interferes the spin process.
2. Load the resin slurry. Close the lid gently. Spin at 6500 rpm for 10 seconds. Note: the maximum volume of liquid the Device can fully discharge is 250 µl. As a guideline, the packed resin should not exceed 200 µl.
3. Discharge the liquid collected in the 1.5 ml tube. Replace the Column in. Load the washing / equilibration buffer in. Close the lid gently. Spin at 6500 rpm for 10 seconds. Typically, the volume of the equilibration buffer is 5 times that of the resin. If necessary, repeat this equilibration step one more time.
4. Discharge the liquid collected in the 1.5 ml tube. Replace the Column in. Open the lid and load the sample. **Close the lid slowly and gently. Don't block the small hole in the lid when closing.** Otherwise, liquid may be pushed out the Column in the bottom hole. Resin / liquid mixing can be done by placing the mini column into a plastic bottle to mix in a roller or shaker.
5. Place the Column into a fresh 1.5 ml tube. Spin at a proper g force for a period. **The liquid retention time in the spin tube may vary for different samples. If the recovered liquid is apparently low, spin the Device for a longer time or at higher g force.**
6. The liquid collected in the 1.5 ml tube is the final sample with the absence of the bound protein.
7. If extra loading, washing and elution steps are needed, follow the instruction in the Step 4 above.

Ordering information

Product	Quantity	Code no.
SuperSpin Micro Column	50 / pack	250101

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