

Centribind Centrifugal Membrane Adsorber Units

Product Specification

Separate / Concentrate Biomolecules in 1 Minute or Less



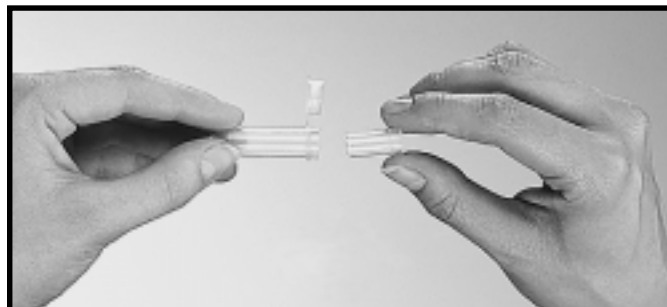
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These ready-to-use units contain an integrated membrane adsorber disc and offer a very small minimum elution volume: 50 μ L. Four ion exchange membranes are available for separating or concentrating virtually any charged molecule, and a unit with an aldehyde group can be used for affinity ligand attachment via an amine group.

Centribind units require no special storage and no equilibration – simply remove one from the box, pipette up to 500 μ L of sample into the upper chamber, and spin in a standard microcentrifuge. Centrifugal filtration forces liquid through the Sartobind membrane at high flow rates – up to 200 times faster than conventional methods. The process brings biomolecules into direct contact with the functional groups on the membrane. Diffusion, the rate-limiting factor in classical chromatography, is avoided, with no sacrifice of binding capacity or resolution.

After spinning the sample, you can transfer the inner tube with the biomolecules to the extra microcentrifuge tube provided for elution (with as little as 50 μ L of eluant) or remove the inner tube for direct access to the filtrate (as shown below). Because no protein is lost in the membrane, recoveries are high.

Removing the Membrane and Filtrate



9960090

Typical Applications for Centribind Centrifugal Membrane Adsorber Units

- Rapid removal of contaminants prior to HPLC analysis
- Immediate isolation of proteins from proteases in cell culture
- Removal of endotoxins or DNA from protein solutions
- Convenient separation of isoforms or free-from-bound molecules for further analysis
- Rapid screening of uncharacterized proteins for pI and optimized separation conditions
- Separate nucleic acids - enzymes - polysaccharides - endotoxins - immunoglobulins - coenzymes - PCR products - recombinant proteins - MAbs - peptides - vaccine antigens

Specifications:

Centribind Centrifugal Membrane Adsorber Units

Capacity: 500 μ L

Adsorption Area: 0.3cm²

Protein Binding Capacity: ~0.5mg

Elution Volume: <50 μ L

Membrane Filter Material: supported, cross-linked, regenerated cellulose

pH Compatibility: 2-13

Maximum Force: 5000g

Ordering Information:

Centribind Centrifugal Membrane Adsorber Units

Pack of 25 units and 25 microcentrifuge tubes.

Membrane Description	Cat. No.
Strongly acidic cation exchanger	SC4G
Strongly basic anion exchanger	QC4G
Weakly acidic cation exchanger	CC4G
Weakly basic anion exchanger	DC4G
Aldehyde, for affinity ligand attachment	AC4G
Metal chelate affinity	IC4G

Trademarks

FPLC – Pharmacia Biotech AB

Centrisart, Sartococon – Sartorius Corp.

Related Products

Sartobind Ion Exchange Membrane Adsorber Units

Ready-to-use Sartobind Membrane Adsorber Units are the ultimate for simple, ultra-rapid concentration of proteins from highly dilute solutions, or for separating proteins from a mixture. They feature high binding capacity (~1mg/cm²), high flow rates (>100mL/min), and excellent resolution. Four types of exchangers – S-type, Q-type, C-type, and D-type – are available in disposable units of 5cm² filtration area and reusable units of 15cm² and 100cm² filtration area. The units can be used with syringes, peristaltic pumps, or preparative HPLC/FPLC® workstations. Luer-Lock inlet/outlet.

Centrisart® I Centrifugal Concentrators

These ready-to-use units are for small volume centrifugal ultrafiltration, for preparing protein-free supernatants, or for recovering low molecular weight substances from biological fluids. A unique design prevents premature blockage of the membrane. Minimum/maximum sample size: 0.5mL/2.5mL; final concentrate volume: ~0.1mL. Available with 5kD, 10kD, 20kD, and 100kD molecular weight cutoffs.

Centrisart C4 Centrifugal Microconcentrators

Centrisart C4 microconcentrators are designed for quick and efficient small volume ultrafiltration or microfiltration. Five types are available. Major applications for the 5kD, 10kD, 20kD, and 100kD units are concentrating and purifying proteins and DNA, buffer exchange, desalting, and removing low molecular weight substances such as primers, non-incorporated nucleotides, and excess linkers. The maximum sample volume is 0.4mL; the final concentrate volume can be as little as 5-10µL.

Centrisart C30 Centrifugal Concentrators

Centrisart C30 units are centrifugal filtration units for rapidly concentrating small sample volumes by ultrafiltration, and for removing particles. They can be used without adapters in all laboratory centrifuges that accept standard 17mm tubes. The sample volume is 3mL, and the final volume can be as little as 30-50µL. 10kD, 20kD, and 100kD units are available.

Sartocon® Micro Crossflow Ultrafiltration Units

These sterile, pyrogen-free, ready-to-connect units bridge the gap between centrifugal units and crossflow cassette systems. They can be used to concentrate or purify 50mL to 1 liter volumes. The tangential flow across the filter is gentle on the sample, preventing the foaming and denaturation which can occur in stirred cells. Sartocon Micro Crossflow Ultrafiltration Units offer ease of handling and the user safety of closed, sterile units.

For additional information about these products, contact the

Supelco Customer Service Department:

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