

# Centrisart® C4 Centrifugal Microconcentrators

## Product Specification

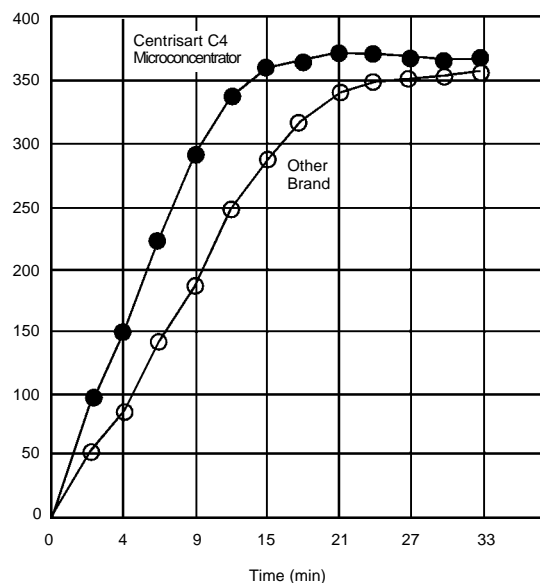
### Small Volume Ultrafiltration or Microfiltration

Centrisart C4 microconcentrators are designed for quick and efficient ultrafiltration or microfiltration of small-volume samples (up to 0.4mL). Major applications for the units with 5kD, 10kD, 20kD, and 100kD molecular weight cutoffs are the concentration and purification of proteins and DNA, buffer exchange, desalting, and the removal of low molecular weight substances, such as primers, non-incorporated nucleotides, and excess linkers. Major applications for the unit with 0.2µm porosity are the removal of agarose particles from eluted DNA and the removal of bacteria and cell fragments.

Identification of the units is quick and reliable: the molecular weight cutoff (or 0.2µm pore size) and an abbreviation for the filter material are printed on the surface of the outer (filtrate) tube, and an etched area on the surface can be used for other labeling. Centrisart C4 Centrifugal Microconcentrators fit standard microcentrifuges.

### Rapid Concentration of Bovine Serum Albumin, Using Centrisart C4 Centrifugal Microconcentrators

Filtrate (µL) **Concentration of 0.1% BSA (10kD units, 10,000g)**



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### Typical Applications for Centrisart C4 Microconcentrators

- Concentration and/or purification of proteins and nucleic acids
- Removal of radiolabels, free ligands, or DNA primers
- Rapid dialysis and buffer exchange
- Desalting



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996-0090

### Specifications: Centrisart C4 Centrifugal Microconcentrators

**Capacity:** 0.4mL

**Filtration Area:** 0.28cm<sup>2</sup>

**Holdup Volume:** <4µL

**Concentrate Volume:** 5-10µL

**Maximum Force:** 10,000g

**Construction:** polypropylene centrifuge tube, cap, inner tube;

cellulose triacetate (5kD, 10kD, 20kD units) or polysulfone

(100kD units) ultrafilter or cellulose acetate membrane filter (0.2µm units);

silicone O-ring

**Typical Performance:** 100x concentration of 0.4mL sample in 15-45 min; particles removed in 30 min

## Ordering Information:

### Centrisart C4 Centrifugal Microconcentrators

Pack of 25.

Nominal Mol. Wt. Limit (Dalton)	Cat. No.
5kD	13229C4G
10kD	13239C4G
20kD	13249C4G
100kD	13269C4G
0.2µm pores	13207C4G

#### Trademarks

FPLC – Pharmacia Biotech AB

Centrisart, Sartocoon – 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/cm<sup>2</sup>), 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 5cm<sup>2</sup> filtration area and reusable units of 15cm<sup>2</sup> and 100cm<sup>2</sup> filtration area. The units can be used with syringes, peristaltic pumps, or preparative HPLC/FPLC® workstations. Luer-Lock inlet/outlet.

### Centribind Centrifugal Membrane Adsorber Units

These ready-to-use units with an integrated membrane adsorber disc offer a very small minimum elution volume: 0.05mL. They require no special storage and no equilibration – simply remove one from the box, pipette up to 0.5mL of sample into the upper chamber, and spin. S-type, Q-type, C-type, and D-type ion exchangers are available, and a unit with an aldehyde group can be used for affinity ligand attachment.

### 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 C30 Centrifugal Concentrators

Centrisart C30 units are a centrifugal filtration unit 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.

### Sartocoon® 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. Sartocoon 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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For more information, or current prices, contact your nearest Supelco subsidiary listed below. To obtain further contact information, visit our website ([www.sigma-aldrich.com](http://www.sigma-aldrich.com)), see the Supelco catalog, or contact Supelco, Bellefonte, PA 16823-0048 USA.

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