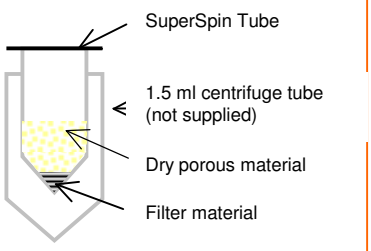
BIOTOOLOMICS

SuperSpin™ Concentrator

Data and Instructions

SuperSpin Concentrator is supplied for rapid concentration of samples up to ten times in less than 5 minutes using the patented technology (patent pending). Up to 24 samples (depending on the type of microcentrifuge) can be processed in one spin. Dry microporous particles are packed into each spin tube for rapid removal of water and other small molecules. It is a much faster and reliable approach when compared to ultrafiltration membranes (e.g. membrane blockage and severe loss of material) or vacuum evaporation (e.g. long processing time with special equipment). Both proteins (> 6,000 dalton) and DNAs (> 10 bp) can be concentrated in a single spin. The typical sample loading volume is 200 µl to 220 µl in each SuperSpin Concentrator.

Configuration of SuperSpin Concentrator



Key benefits:

- Rapid sample concentration in very mild conditions in comparison to membrane ultrafiltration and vacuum evaporation methods
- Rapid concentration of DNAs in comparison to the ethanol or polymer precipitation methods
- Direct collection of the pass through as the concentrated product with little chance of contamination
- High recovery yield of target molecules (typically > 90%)
- DNAse free

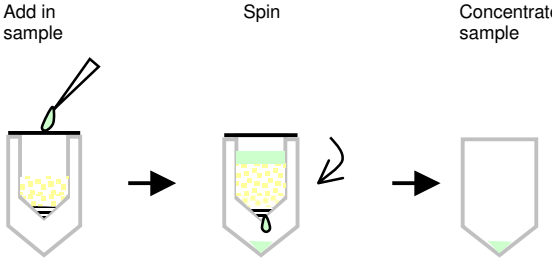
SuperSpin Concentrator is particularly useful for the following applications:

- Concentration of small volumes of protein samples
- Concentration of DNAs after Mini Preps
- Concentration of DNAs after cleaning up the PCR and restrictive digestion products etc

Operation instructions

1. Snap off the bottom closure of the SuperSpin column. Place it into a standard 1.5 ml microcentrifuge tube. (Caution: don't open the cap of the SuperSpin column in this stage). Keep the lid of the 1.5 ml tube open, or cut it off if it interferes the spin process.
2. Spin at 6500 rpm for 10 seconds to pack down the dry particles.
3. Unscrew the cap of the SuperSpin column gently. Avoid disturbing the settled bed. Load 200 µl to 220 µl of the sample slowly upon top of the particles (Note: the minimum loading volume is 200 µl).
4. Close the SuperSpin lid and spin at 6500 rpm for 2 minutes.
5. The concentrated sample is collected in the 1.5 ml tube.

Diagram: SuperSpin Concentrator operational procedure



Technical data

Protein	Loading volume	Final volume	Concentration factor	Protein recovery
Lysozyme (1 mg/ml)	220 µl	44 µl	4.5	96%
BSA (1 mg/ml)	220 µl	40 µl	5.0	92.9%

Ordering information

Product	Quantity	Code no.
SuperSpin Concentrator	50	220101

Related products	Quantity	Code no.
Ni SuperSpin	50	150101
Co SuperSpin	50	150103
Zn SuperSpin	50	150104
Protein A SuperSpin	20	230101
Protein A SuperSpin	50	230102
SuperSpin Desaltor	50	210101

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