

Protein A SuperSpin

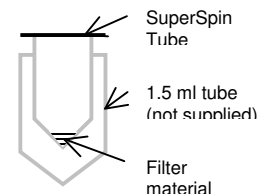
Data and Instructions



hosts.

Protein A SuperSpin is supplied for fast small-scale purification of immunoglobulins from various species (e.g. serum, ascites and mammalian cell culture supernatants etc) at low cost. Protein A has been well proven a powerful affinity ligand that shows very high specificity to IgGs from mammalian

Configuration of SuperSpin Tube



Each product consists of: 3 ml of Protein A SuperSpin Resin, 50 SuperSpin Tube, 50 pipetting tips.

Each Protein A SuperSpin tube accommodates 50 μ l of Protein A agarose particles. The affinity resin is specifically designed to provide large accessible pore size with small particle size (i.e. 30 – 100 μ m). So large antibody molecules can access the affinity ligand rapidly with excellent mass transfer rate. As a result, up to 0.5 milligram of antibody can be easily purified within 20 minutes at inexpensive cost. No special expensive chromatography instrument and column is required.

Protein A SuperSpin is particularly useful for the following applications:

- The quantity of antibody to be purified is small (up to 0.5 milligram)
- On-line detection of antibody expression level
- High throughput screening of antibodies

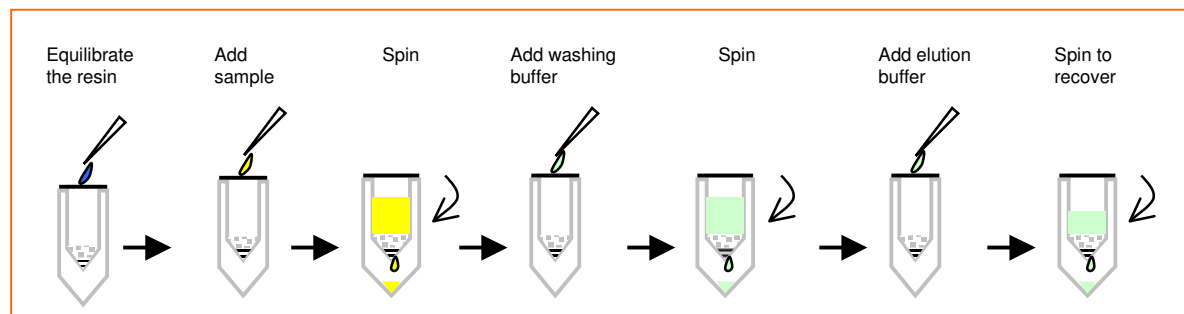
Key benefits:

- Rapid antibody capture and recovery
- High antibody binding capacity (up to 0.5 milligram)
- High throughput format (24 samples can be processed in parallel)
- Low cost
- Easy to use and no expensive equipment required

Product characteristics

Tube material	Polypropylene
Resin	Protein A SuperSpin resin
Packed volume	50 μ l
Protein binding capacity	Depends on the source of antibodies; up to 0.5 mg human IgG
pH stability	3 – 9 in long term and 2 – 10 in short term
Chemical stability	The resin maintains the binding capability when exposed to 3M NaSCN, 6M GuHCl, 8 M urea and 70% ethanol for a few hours
Storage condition	4°C – 30°C

Operation Instructions



Note: standard 1.5 ml centrifuge tubes and a benchtop microcentrifuge are required in advance.

BIOTOOLOMICS

1. Place the SuperSpin tube in a standard 1.5 ml microcentrifuge tube (the lid of the 1.5 ml tube can be cut off). Spin at 1000 rpm for 30 seconds to settle the resin.
2. Open the tube lid and load 250 µl of the binding buffer.
3. Close the SuperSpin tube lid. Spin at 6,500 rpm for 1 minutes.
4. Place the SuperSpin tube into another fresh 1.5 ml tube. Add up to 250 µl of the protein sample and spin at 6,500 rpm for 1 minutes. More volume of sample can be added after each spin as long as it doesn't exceed the binding capacity (i.e. 0.5 mg). Make sure to fully empty the 1.5 ml tube after each spin. (*Note: depending on the nature of individual sample, the spin speed and spin time may be varied to fully discharge the liquid*)
5. Place the SuperSpin tube into another fresh 1.5 ml tube. Add 200 µl of the binding buffer and spin at 6,500 rpm for 1 minute. The washing may be repeated one more time. Remember to empty the 1.5 ml tube after each spin.
6. Place the SuperSpin tube into another fresh 1.5 ml tube. Add 150 µl of the elution buffer (e.g. 0.1 M glycine buffer at pH 3.0). Spin at 6,500 rpm for 1 minutes. The elution can be repeated one more time by adding another 100 µl of the elution buffer. Two elution fractions can be collected into the same tube or into two separate tubes. Most of the bound antibody will be eluted in the first fraction.

Ordering information

Product	Quantity	Code no.
Protein A SuperSpin	50 / pack	230102

Related products	Quantity	Code no.
SuperSpin Desaltor	50	210101

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