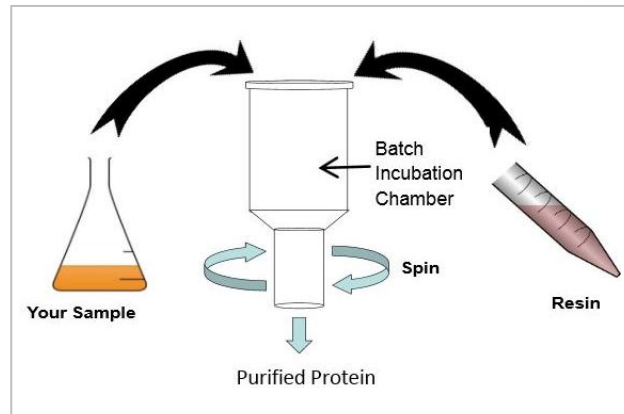


## Proteus 1-Step Batch Midi Spin Columns Datasheet

Protein Ark's Proteus '1-step-batch' spin columns allow you to batch mix your filtered or unclarified sample with the resin of your choice and then wash and elute your purified and concentrated protein in a small volume. These columns allow you to process multiple samples in parallel. The spin column barrels fit all 50 ml conical centrifuge tubes and can be used in standard bench centrifuges containing a swing bucket rotor.



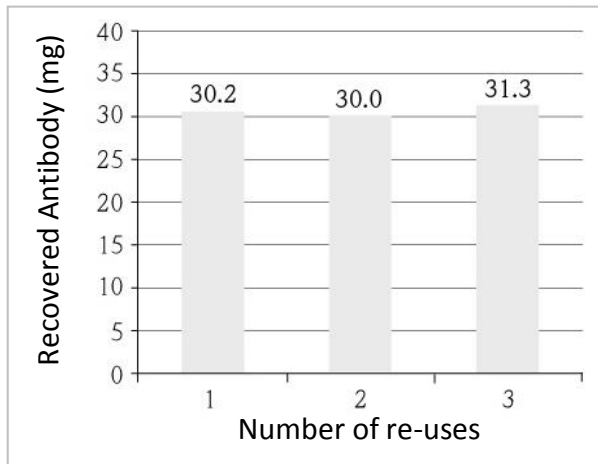
There is no resin carry-over to subsequent downstream analyses, no messy transfer of samples/resin slurries and negligible hold-up volume. As the device is contained, it is ideal for handling biohazardous samples and samples from infectious sources.

### Specification:

Sinter type:	Ultra High Density Polyethylene
Plastic spin column barrel construction:	Polypropylene
Yellow TOP 'sample incubation' screw cap:	Polypropylene
Beige BOTTOM 'sample incubation' cap:	TPE
Clear TOP 'spin' cap:	Polypropylene
Mean sinter pore size:	18 $\mu\text{m}$
Sinter construction:	low protein-binding ultra high density polyethylene
Maximum upper reservoir volume:	22 ml
Typical g force:	200 g
Typical spin times:	2 min
Max. g force:	1,500 g
Storage:	Store at RT (non-sterile)

**Data:**

Graph showing the typical IgG capacity of a Protein Ark '1-step batch' spin column after 3 re-uses using unclarified rabbit serum. The serum was incubated for 20 min in batch mode on a roller and the purified IgG was then eluted using centrifugation at 200 g for 2 min.

**Method:**

1. Remove the clear TOP spin cap and load the required amount of resin. Add 10 ml binding buffer, replace the clear TOP spin cap and spin at 200 g for 2 min to equilibrate the resin matrix.
2. Carefully remove the spin column barrel and push the beige BOTTOM cap on to the end of the tapered part of the spin column. Place the spin column into a fresh 50 ml centrifuge tube.
3. Remove the clear TOP spin cap, load the sample, either filtered or unfiltered, into the upper reservoir (containing the resin) and screw the yellow TOP cap tightly on to the centrifuge tube.
4. Place the column on a standard tube roller and mix for a required time. Most applications require only a 30 min incubation.
5. After batch incubation, replace the yellow TOP cap with the clear TOP spin cap. Carefully remove the spin column barrel from the centrifuge tube and the beige BOTTOM cap from the tapered end of the spin column. Place the spin column barrel into a 50 ml centrifuge tube and spin at 200g for 2 min. Remove the filtrate.
6. Add 15 ml wash buffer. Wash off the unbound protein at 200 g for 2 min. Remove the filtrate and repeat this step.
7. Place the spin column barrel into a fresh tube. Add up to 10 ml elution buffer to the upper reservoir and elute the purified protein at 200 g for 2 min.

**Ordering Information:**

Product	Units	Order Code
Proteus '1-step batch' Midi spin column pack	8	GEN-1SB08

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