



**HyperSep™ SpinTip Instructions for POROS® Strong Anion (Part Number 60109-420)
Counter Ion is SO₄²⁻**

Binding Capacity: BSA pH 8.0 is 750µg per HyperSep SpinTip

APPLICATIONS: Universal trapping and concentration of peptides; removal of salts, detergents and urea. The slit in the bottom, 10µm wide, permits fluids to pass but not the 30µm packing material. Thus, no filter is necessary. This permits the elution of peptides in minimal volumes and minimizes the potential for sample loss. The capacity of this item is for samples 2-10µL or larger if a syringe is used.

Recommended Solvents:

Binding Solution: Buffer ion should be cationic or at least zwitterionic

Avoid anionic buffers such as phosphate, borate

Releasing Solution: NaCl or KCl are the most commonly used salts for elution

Sulfate, formate, acetate salts can also be used

Up to 1.0M ionic strength elutes most proteins and peptides

Conditioning Procedure

- a) Tap the HyperSep™ SpinTip gently to displace any packing material sticking to the top white cap. Remove the white caps from the top and bottom (see fig. 1)
- b) Via a pipette tip inserted in the top of the HyperSep™ SpinTip (see fig. 2), add 50µL of the binding solution in order to wet the packing material. Attach the HyperSep™ SpinTip to a pipettor or syringe (see fig. 3) and apply air pressure to force the solution through the packed bed, Remove the HyperSep™ SpinTip from the pipettor and repeat this washing procedure 2-3 times.

NOTE: Do not aspirate (suck up) the liquid. Since there is no filter on top, this will disrupt the packed bed and the material may be sucked into the pipettor. Liquids should always be forced through the packed bed either via positive air pressure or in a microcentrifuge.

Sample Binding:

Apply the sample solution as above, attach the HyperSep™ SpinTip to a pipettor or syringe, and force the liquid through the packed bed. NOTE: If this process is slow, then hold the HyperSep™ SpinTip onto the pipettor or syringe with one hand and push the plunger slowly; otherwise, the tip could pop off due to high pressure.

Sample Washing:

Wash the packed bed 2-3 times with 50µL volumes of the binding solution (bed volume is 8µL). Repeat and combine the eluents in order to elute all of the adsorbed peptide. Evaporate the solvent or proceed directly to the next analysis.

