



HyperSep™ Tip Instructions for Reversed Phase (C18, Silica, Carbon or POROS®) (Part Number 60109-201, 60109-202, 60109-203, 60109-204 or 60109-205)

APPLICATIONS: Universal trapping and concentration of peptides; removal of salts. The packing material is physically embedded in the walls, so no filter or supporting matrix is necessary. This reduces the volume necessary for elution and eliminates sources of potential contamination and sample loss. The capacity of this item is for samples 0.1-10 μ L.

Recommended Solvents

Binding solution: 0.1% formic acid or 0.05% TFA

Releasing solution: Same plus 60% acetonitrile (ACN), propanol or methanol (use more or less organic solvent depending on the polarity of the peptides).

Conditioning Procedure

Attach the HyperSep™ Tip to a micropipette and aspirate/expel 2-10 μ L of the appropriate releasing solution 5 times, and wash 3 times with 2-10 μ L binding solution.

Sample Binding

Aspirate/expel the sample (0.1-10 μ L) 20-50 times (or higher depending on sample volume and concentration of biomolecule) to allow the peptides to adsorb to the reversed phase material.

Sample Washing

Aspirate/expel 10 μ L volumes of the binding solution 10 times, discarding the expelled solution each time.

Sample Release

Aspirate/expel 0.5-10 μ L of releasing solution 10 times, collecting the expelled solution in a suitable clean tube (NOTE: it's a good idea to prewash collection tubes to eliminate leachable contaminants). If you want higher recovery, repeat with a fresh portion of releasing solution (2-3 times). Evaporate the solvent or proceed directly to the next analysis.

NOTE: for Carbon Tip and C18-Carbon mix tip, repeat the elution procedure 5-10 times (as peptides release very slowly from graphitic carbon).