C₄ SpinTips Sample Prep Kit
Catalog Number: SP-152

PRODUCT DESCRIPTION:
The C₄ SpinTips Sample Prep Kit contains tips and reagents for reversed phase solid phase extraction of small and large protein samples for electrospray or MALDI mass spectrometry. The kit is effective in concentrating and desalting small and large proteins resulting in mass spectra with better S/N and reduced salt adducts.

The SP-152-24 kit contains 24 C₄ SpinTips for 20-1000uL volumes, 25mL sample reconstitution and rinse solution, 25mL equilibration solution, and 25mL elution solution.

The SP-152-96 kit contains 96 C₄ SpinTips for 20-1000uL volumes, 50mL sample reconstitution and rinse solution, 50mL equilibration solution, and 50mL elution solution.

PRODUCT CARE AND STORAGE:
Product is shipped at ambient temperature and should be stored at room temperature. Recommended for use within 2 years.

SPECIFICATIONS:
- Maximum Binding capacity: 800 µg
- Minimum Binding capacity: 250 ng
- Amount of C₄ beads in a tip: 10 mg
- Sample volume: 20-1000 µL

ORDERING INFORMATION:
Catalog Number: SP-152-24
Kit contains 24 C₄ SpinTips, Sample Reconstitution and Rinse Solution (SP-900-25mL), Equilibration Solution (SP-901-25mL), and Elution Solution (SP-902-25mL)

Catalog Number: SP-152-96
Kit contains 96 C₄ SpinTips, Sample Reconstitution and Rinse Solution (2 x SP-900-25mL), Equilibration Solution (2 x SP-901-25mL), and Elution Solution (2 x SP-902-25mL)

PROTOCOL:
Protocol 1
1. Ensure that the packing material is at the bottom of the tip by gently tapping the tip to displace any packing material sticking to the top red cap.
2. Place a centrifuge adaptor onto a 2 mL centrifuge tube.
3. Remove the red cap from the SpinTip and place into the centrifuge adaptor.
4. Wash the SpinTip to wet the packing material by adding 50 µL of equilibration solution to the top of the SpinTip using a micropipette. Centrifuge the system at 4000 x g for 3 min. Repeat the SpinTip wash.
5. Rinse the SpinTip by adding 50 µL of sample reconstitution and rinse solution to the top of the SpinTip. Centrifuge the system at 4000 x g for 3 min. Repeat the SpinTip rinse.
6. Reconstitute the sample in 20 to 1000 µL of sample reconstitution and rinse solution.
7. Load 10 to 200 µL of the sample solution by adding it to the top of the SpinTip and centrifuging the system at 4000 x g for 3 min. Additional sample volume can be added in 200 µL aliquot cycles.
8. Wash the sample to elute salts and other non-retained components by adding 50 µL of the reconstitution and rinse solution to the top of the SpinTip. Centrifuge the system at 4000 x g for 3 min. Repeat the SpinTip sample wash twice for a total of three wash cycles.
9. Transfer the SpinTip to a new clean centrifuge tube to collect the sample during elution.
10. Elute the sample by adding 20 to 50 µL of elution solution to the top of the SpinTip. Centrifuge the system at 4000 x g for 3 min. Repeat the SpinTip sample elution.

*Monitor the level of liquid in the waste centrifuge tube being careful the flow through volume does not cover the bottom tip of the SpinTip.

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Catalog Number: SP-152-96
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PROTOCOL:
Protocol 2
1. Ensure that the packing material is at the bottom of the tip by gently tapping the tip to displace any packing material sticking to the top red cap.
2. Remove the red cap from the SpinTip and attach a syringe (provided) filled with 50 µL of equilibration solution and push the solution through the top of the SpinTip. Repeat washing procedure.
3. Rinse the SpinTip with 50 µL of sample reconstitution and rinse solution by re-filling the syringe and pushing through the tip.
4. Reconstitute the sample in 20 to 1000 µL of sample reconstitution and rinse solution.
5. Pipette 10 to 200 µL of the sample into the top of the SpinTip.
6. Load the sample onto the SpinTip C₄ beads by pushing through 100 µL of the reconstitution and rinse solution using the syringe.
7. Wash the sample to elute salts and other non-retained components by pushing through the spin tip 50 µL of the reconstitution and rinse solution using the syringe. Repeat rinse.
8. Elute the sample by pushing 20 to 50 µL of elution solution through the SpinTip and into a collection vial (0.5 to 2.0 mL microcentrifuge tube). Repeat the SpinTip sample elution.

*Monitor the level of liquid in the waste centrifuge tube being careful the flow through volume does not cover the bottom tip of the SpinTip.