Peptide Desalting Plate 96 Well

Product Name:	96 well C18 desalting plate, 400 µL, 2 mg/well
Product Number:	C2XCM0
Quantity:	1 plate

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The C18 hydrophobic resin is filled in DV-free 96 filter plate to achieve efficient desalting of peptide samples after enzymatic digestion. Our unique technology still possess high binding capacity and recovery rate for small volume samples, which is an effective tool for sample preparation for peptide mass spectrometry analysis.

Features

- High Throughput:Process 96 samples one time and suitable for automated pre-processing workstations.
- High Sensitivity: Significantly reduces signal suppression and increases mass spectrometry sensitivity.
- High Reproducibility: Unique technology, stable performance, good repeatability.
- No dead Volume:DVfree structure design, without dead volume
- High Binding Capacity:Special hydrophobic C18 resin enables high recovery rate.

Applications

- Purification of peptides after protease cleavage.
- Peptide sample concentration and desalting.
- Sample preparation for MALDI peptide analysis.
- Sample processing in proteomics workflows.

Technical and Scientific Information

- Sample preparation: Add TFA to the tryptic sample so that the final concentration of TFA in sample is 0.1%.
- Activation: Add 200 µl acetonitrile or methanol to the 96-well plate and discard the flow-through.
- Equilibration: Add 200 µl 0.1% TFA to the 96-well plate and discard the flow-through.
- Sample loading: Load 200 µl of sample solution containing 0.1% TFA onto a 96-well desalting plate and allow the sample solution to slowly flow under low pressure, positive pressure or negative pressure.
- Pass slowly through the orifice plate and discard the effluent.
- Elution: Add 200 µL of 0.1% TFA aqueous solution to the 96-well plate and dry the desalting plate under positive or negative pressure nitrogen for 30 s.
- Remove as much solvent as possible from the column bed.
- Elution: Add a total of 200 µL of 70% acetonitrile solution three times for elution, collect the filtrate into a 96-well collection plate, and blow nitrogen gas to nearly dryness at room temperature.
- Redissolution: Add 200 µL 0.1% formic acid or appropriate solution for redissolution for mass spectrometry analysis.

Precautions

- Select a desalting plate of appropriate specifications based on the sample loading amount. The maximum adsorption capacity of a 2 mg desalting plate is 5 μg.
- Select appropriate loading volume and reconstitution volume according to the sensitivity of mass spectrometry.
- The sample solution should not contain high concentration of methanol or acetonitrile. If it does, nitrogen blowing can be used replace the solvent.
- Plastic tubes are prone to non-specific adsorption of peptides, so excessive use should be avoided.
- Keep the column bed in the desalting plate moist during the sample loading process.
- If the sample contains high salt concentrations (such as 2 M urea or >100 mM ammonium bicarbonate), repeat the wash step one or two times.