

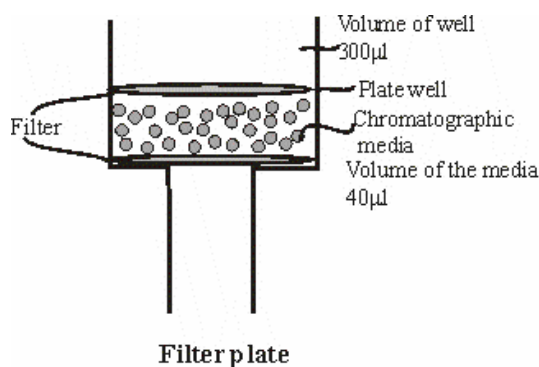
Thermo

SCIENTIFIC

HyperSep™ Filter Plate 40µL Instructions for Strong Anion Exchanger (SAX)

Part Numbers: 60110-509 (SAX)

INTRODUCTION: HyperSep Filter Plates contain a filter at the bottom of each well and can be used under vacuum or with a centrifuge. They are ideal for the clean-up and purification of µg to mg scale samples. The chromatographic bed volume is 40µL, which may contain 20-80mg of media, dependent upon the media used.



Recommended Solvents

Volatile Solvents:

Binding solution: 10mM ammonium formate, pH 2.7-3.0, with 20% acetonitrile, OR 0.1% formic acid with 20% acetonitrile

Releasing solution: 5% ammonium hydroxide with 30% methanol OR 0.4M ammonium formate, pH 5.0, with 20% acetonitrile (optional if sample contains no detergent and is to be injected directly onto a reversed-phase column or capillary)

Non-Volatile 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. An ionic strength of up to 1.0M elutes most proteins and peptides.

The above buffers are recommendations, you may wish to use different buffers according to your application.

Sample Binding

1. Pipette 10-100 μ L of the appropriate releasing solution and spin at 1000rpm for a few minutes or apply vacuum.
2. Repeat this procedure 2-3 more times

Sample Washing

Wash with 10-50 μ L volumes of the binding solution 10 times, discarding the expelled solution each time. This will eliminate salts, lipids & detergents.

Sample Release

Pipette 5-20 μ L of releasing solution and spin at 1000rpm or apply vacuum. Repeat two times to get maximum recovery. Evaporate the solvent or proceed directly to the next analysis.