

SCX Cartridge Protocol

Created 03/21/07

Reagents

SCX Buffer A: 10 mM KH₂PO₄ 25% Acetonitrile (ACN) pH = 3
SCX Buffer B: 10 mM KH₂PO₄ 350 mM KCl 25% ACN pH = 3
SCX Wash Buffer: 10 mM KH₂PO₄ 1 M KCl 25% ACN pH = 3
Methanol (MeOH)
75% HPLC H₂O / 25% MeOH
HPLC H₂O

Column and Sample Prep

Dry down sample and bring up in 100 µL – 500 µL of SCX A. If sample isn't dried down confirm that pH is <3 and that the solution had no interfering cations or other potential contaminants.

(2x) Wash column with 1 mL of HPLC H₂O

(2x) Wash column with 500 µL SCX Buffer B

(3x) Wash column with 1 mL SCX Buffer A

Sample Loading and Elution

Place microcentrifuge tube below column outlet

Load sample slowly through column (1-2 drops/second)

Take Flow-thru and reload sample 1x @ same flow rate

(2x) Wash column with 500 µL of SCX Buffer A

Save and label tube flow-thru then place a new tube under the column outlet

Add 500 µL of SCX Buffer B to elute

Post Elution Cleanup

(2x) Wash column with 500 µL HPLC H₂O

(2x) Wash column with 500 µL SCX Wash

(2x) Wash column with 1 mL MeOH

(2x) Wash column with 500 µL 75% HPLC H₂O / 25% MeOH

Cap ends of cartridge, wrap in parafilm to keep moist, and store @ room temperature.