

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE245**ISOLATION OF 9 CIS, 11 CIS, 13 CIS AND ALL TRANS RETINOL ACID FROM SERUM****Spe-ed™ Cartridge**

Cat. No. 2211-NH₂ Aminopropyl, 100mg/1mL; or Cat. No.2331- DEA diethylamino, 100mg/1mL.

Sample Preparation

Extract vitamin A isomers from the sample with 99% methanol. Use 2 parts methanol to 1 part sample. Filter evaporate, and re-dissolve in 100uL 1:1 chloroform / methanol. Add 3mLs of hexane.

Cartridge Conditioning

1mL 99%methanol / water.
DO NOT ALLOW CARTRIDGE TO RUN DRY!

Sample Addition

Add prepared sample to cartridge (lipid extract in methanol). Aspirate **slowly** through cartridge.

Cartridge Wash

1mL of 99% methanol/ water.

**Analyte Elution
-or-**

2mL of 5 mM ammonium acetate in 99% methanol / water.
Evaporate eluate under N₂ and re-dissolve in methanol.

**Alternative Elution
solvents**

2mL of 0.1 M ammonium acetate in 99% methanol / water.
Adjust pH to 3.0 with acetic acid. Evaporate eluate under N₂ and re-dissolve in methanol.

The logo for Applied Separations, featuring the company name in a bold, italicized sans-serif font with horizontal lines above the word "Applied".

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