

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE178**ISOLATION OF FAT SOLUBLE VITAMINS FROM
MULTIVITAMIN TABLETS**

Spe-ed™ Cartridge	Cat. No. 12002-Octadecyl C18/18%, 200mg/3mL. Process with Spe-ed Mate .
Sample Preparation	Grind tablet to powder. Add 5mL 1% acetic acid in water. Warm at 55°C. for 2 minutes. Cool and add 10mL isopropanol.
Cartridge Conditioning	2mL methanol 2mL of 1% acetic acid in water. DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Pass 2mLs of prepared sample slowly through cartridge.
Cartridge Wash	1mL of isopropanol: 1% acetic acid in water (55:45) 500uL tetrahydrofuran: water (1:1). 250uL methanol: water (80:20). Dry tubes for 5 minutes under nitrogen flow. (Vitamins degrade in air.)
Analyte Elution	2 x 500uL methylene chloride. Dilute to 2mL with 0.01% butylated hydroxytoluene in acetonitrile.

Note: *Since sample matrix interferences and concentrations may vary from sample to sample, it may be necessary to adjust the wash and elution solvent/solvent strength and/or volume to optimize isolation.*

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

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