

**SPE**Solid Phase  
Extraction

# Application Note

World Leaders in Sample Preparation

**SPE130****ISOLATION OF VITAMIN D3 ITS METABOLITES  
FROM SERUM OR PLASMA**

<b>Spe-ed™ Cartridge</b>	Cat. No. 2003-Octadecyl C18/14%, 500mg/3mL Process with <i>Spe-ed Mate</i>
<b>Sample Preparation</b>	Dilute 1mL of sample with 2mL of ethanol, vortex, and then centrifuge. Decant and collect supernatant.
<b>Cartridge Conditioning</b>	2 x 3mL of methanol, followed immediately by 3mL of distilled water. <b>DO NOT ALLOW CARTRIDGE TO RUN DRY!</b>
<b>Sample Addition</b>	Add collected supernatant. Aspirate sample completely from cartridge at 5mL/ minute.
<b>Cartridge Wash</b>	2 sequential 0.5mL volumes of 70% methanol/ 30% 0.01 N HCl.
<b>Analyte Elution</b>	2 sequential 0.5mL volumes of methylene chloride. It may be necessary to evaporate sample and reconstitute in an analytically suitable solvent / solution.

**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 solution 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".

930 Hamilton Street · Allentown, PA 18101  
610-770-0900 · 610-740-5520 (fax)  
[www.appliedseparations.com](http://www.appliedseparations.com)