

**SPE**Solid Phase  
Extraction

# Application Note

World Leaders in Sample Preparation

**SPE217****ISOLATION OF 9-CARBOXY THC FROM SERUM**

<b>Spe-ed™ Cartridge</b>	Cat. No. 2613- <i>Spe-ed Scan</i> THC, 100mg/3mL; or Cat. No. 3613- <i>Spe-ed Scan</i> THC LRC, 15mL. Process with <i>Spe-ed Mate</i> .
<b>Sample Preparation</b>	<b>Base hydrolysis:</b> Dilute 1 part serum with 2 parts 0.05 N HCl. Mix well. IMPORTANT: Operate <i>Spe-ed Mate</i> at 5in. Hg vacuum maximum.
<b>Cartridge Conditioning</b>	3mL methanol, followed by immediately by 3 mL of 0.01 N HCl. <b>DO NOT ALLOW CARTRIDGE TO RUN DRY!</b>
<b>Sample Addition</b>	Add prepared sample. Aspirate sample completely from cartridge.
<b>Cartridge Wash</b>	2 sequential 0.5mL volumes of 5% acetonitrile / 45% 0.01 N HCl / 50% methanol. Air dry cartridge under vacuum for 3-4 minutes.
<b>Analyte Elution</b>	2 sequential 0.5mL volumes of 25% hexane / 75% ethyl acetate. Evaporate sample to dryness, then reconstitute in a suitable solvent for HPLC and HP-TLC or derivatize for GC/MS.

The logo for Applied Separations, featuring the company name in a bold, italicized sans-serif font with horizontal lines above the word "Applied".930 Hamilton Street · Allentown, PA 18101  
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