

**SPE**Solid Phase  
Extraction

# Application Note

World Leaders in Sample Preparation

**SPE235****ISOLATION OF PHENCYCLIDINE**

<b>Spe-ed™ Cartridge</b>	Cat. No. 2713- <i>Spe-ed</i> Scan ABN, 3mL; or Cat. No. 2714- <i>Spe-ed</i> Scan ABN, 6mL; or Cat. No. 3713- <i>Spe-ed</i> Scan ABN, LRC, 15mL; or Cat. No. 3723- <i>Spe-ed</i> Scan ABN LRC w/ cap, 15mL. Process with <i>Spe-ed Mate</i> .
<b>Sample Preparation</b>	Add 2mL of 0.1 M Phosphate buffer (pH 6.0) to a 4mL sample of urine. Sample pH should be 6.0**
<b>Cartridge Conditioning</b>	2mL of methanol. 2mL of water. 2mL of 0.1 M phosphate buffer (pH 6.0) DO NOT ALLOW CARTRIDGE TO RUN DRY!
<b>Sample Addition</b>	Add to cartridge. Aspirate samples through the cartridge at 1mL per minute.
<b>Cartridge Wash</b>	2mL of water. 1mL of 1 N acetic acid. 2mL of methanol. Air-dry cartridge under vacuum for 10 minutes. At 15in. Hg.
<b>Analyte Elution</b>	3mL of 2% ammonium hydroxide in 80/20 methylene chloride/isopropanol*. Dry eluate under nitrogen at <40°C. Reconstitute in a 100uL of ethyl acetate. Inject 1 to 2uL.

\*Make new elution solvent daily.

\*\*Adjust sample pH with 0.1 N HCl or 0.1 NaOH as necessary.

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

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  
610-770-0900 · 610-740-5520 (fax)  
www.appliedseparations.com