

# SPE

Solid Phase  
Extraction

# Application Note

World Leaders in Sample Preparation

## SPE128

### ISOLATION OF BENZODIAZEPINES FROM URINE

<b>Spe-ed™ Cartridge</b>	Cat. No. 2003-Octadecyl C18/14%, 500mg/3mL. Process with <i>Spe-ed Mate</i> .
<b>Sample Preparation</b>	Adjust pH to 10.5 with 0.1 M sodium carbonate buffer (pH 10.5).
<b>Cartridge Conditioning</b>	2 x 3mL of methanol, followed immediately by 3mL of 0.1 M sodium carbonate buffer (pH 10.5)
<b>Sample Addition</b>	Add up to 10mL of prepared sample. Aspirate sample completely from cartridge.
<b>Cartridge Wash</b>	2 sequential 0.5mL volumes of 85% 0.1 M sodium carbonate buffer (pH 10.5)/15% acetonitrile.
<b>Analyte Elution</b>	2 sequential 0.5mL volumes of methanol. 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.*

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