

# SPE

Solid Phase  
Extraction

# Application Note

World Leaders in Sample Preparation

## SPE196

## ISOLATION OF ARACHIDONIC ACID METABOLITES AND OTHER ESSENTIAL FATTY ACIDS FROM URINE

<b>Spe-ed™ Cartridge</b>	Cat. No. 2003- Octadecyl C18/14%, 500mg/3mL. Process with <b>Spe-ed Mate</b> .
<b>Sample Preparation</b>	Adjust sample pH to 3 with 1 N formic acid.
<b>Cartridge Conditioning</b>	2 x 3mL of methanol, followed immediately by 3mL of 0.05 N formic acid (pH 3). <b>DO NOT ALLOW CARTRIDGE TO RUN DRY!</b>
<b>Sample Addition</b>	Add up to 2mL of prepared serum, or 10mL of urine. Aspirate sample completely from cartridge.
<b>Cartridge Wash</b>	2 sequential 0.5mL volumes of 75% 0.05 N formic acid / 25% acetonitrile. Air dry cartridge under vacuum for 3-4 minutes.
<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 strength and/or volume to optimize isolation.*

Applied  
Separations

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