

**SPE**Solid Phase  
Extraction

# Application Note

World Leaders in Sample Preparation

**SPE175****ISOLATION OF HOP ACID FROM BEER**

<b>Spe-ed™ Cartridge</b>	Cat. No 2003- Octadecyl 18%/14%, 500mg / 3mL. Process with <i>Spe-ed</i> Mate 10 or 30.
<b>Sample Preparation</b>	Degas 100mL of beer sample.
<b>Cartridge Conditioning</b>	5mL of methanol. 5mL of distilled water. <b>DO NOT ALLOW CARTRIDGE TO RUN DRY!</b>
<b>Sample Addition</b>	Attach sample reservoir to cartridge with adaptor. Pass 100mL of beer through cartridge.
<b>Cartridge Wash</b>	5mL of water.
<b>Analyte Elution</b>	2mL of methanol. Inject 100uL of methanol containing hop acids into HPLC.
<b>HPLC Conditions</b>	3.9 mm x 15cm, C18, 5 micron
<b>Column</b>	60% MeOH/ 40% PICA (pH 4.5)
<b>Mobile phase</b>	1mL/ minute
<b>Flow rate</b>	210nm- Auto scale
<b>Detector</b>	100uL
<b>Injection Volume</b>	

**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, 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)