SPE Solid Phase Extraction

Application Note

World Leaders in Sample Preparation

SPE231 ISOLATION OF 9-CARBOXY THC FROM URINE

***Spe-ed*™ Cartridge**	Cat. No. 2613- Scan THC, 100mg/ 3mL; or Cat. No. 3613- Scan THC LRC, 15mL; or Cat. No. 3623- Scan THC, LRC, w/ cap, 15mL; or Cat. No. 3714- Scan THC, 100mg/6mL. Process with ***Spe-ed* Mate**.
Sample Preparation	Base hydrolysis. Add 200uL of 10 N N_aOH to 4mL sample of urine. Heat sample to 80°C for 30 minutes. Add 2mL glacial acetic acid. Adjust pH to 3.5**
Cartridge Conditioning	2mL of methanol. 2mL of water. 1mL 0.1 N HCl. DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Slowly aspirate entire sample through the cartridge.
Cartridge Wash	2mL of water. 2mL acetonitrile / 0.1 N HCl, 40/60. Air-dry cartridge under vacuum for 10 minutes. At 15in. Hg.
Analyte Elution	3 x 1.0mL aliquots of hexane / ethyl acetate 50/50. Dry eluate under nitrogen at <40°C. Add 50uL ethyl acetate, and 50uL BSTFA(with 1% TMCS) under N_2, and cap. Mix. Heat to 70°C for 20minutes. Cool. 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.*

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