

# Sample Preparation Details

for HPLC Application ID No.: 16318

## SPE of Tetracyclines from Honey Using Gemini 5u

### PRODUCT DESCRIPTION:

strata-X-CW 33µm Polymeric Weak Cation  
60 mg / 3 mL, Tube, 50/Pk  
Order No.: 8B-S035-UBJ

### SOLID PHASE EXTRACTION (SPE) PROCEDURE:

**Note:** The solvent volumes shown below are for a 60 mg bed mass.  
The solvent volumes will need to be adjusted for a smaller or larger bed mass.

#### Condition:

1. MeOH 2 mL @ 1 mL/min
2. Water 2 mL @ 1 mL/min

#### Load:

1 gm of Honey sample diluted with 3 mL NaOAc (100mM) pH 5.0

#### Wash:

1. Water 4 mL @ 1 mL/min
2. Methanol 4 mL @ 1 mL/min
3. 2% Formic Acid in Methanol 2 mL @ 1 mL/min

#### Dry:

2 min at 10" of Hg

#### Elute:

1. 2% Formic Acid in Methanol 2 mL @ 1 mL/min

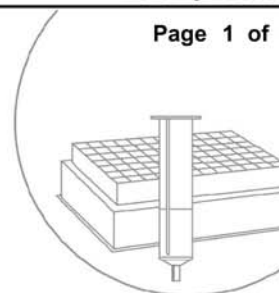
#### Final Prep and Analysis:

Elution of 2 mL (2% Formic Acid in Methanol) is recommended to do in 2 aliquots. Inject: 50 µL on HPLC / UV-Vis Abs. - Variable Wave. @ 365 nm (ambient)

#### ANALYTES:

	Spiked Conc. (ng)	Log P	pKa	% Rec	%RSD (n=0)
1 Oxytetracycline	50			103	
2 Tetracycline	50			99	
3 Chlortetracycline (IS)	50				

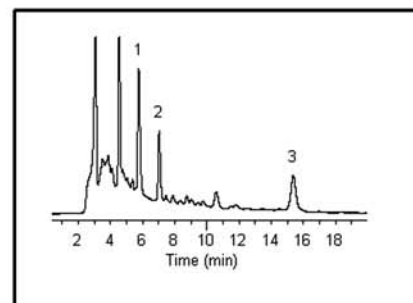
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Products used in this Application:



### HPLC CHROMATOGRAM



Gemini 5u C18 110A  
150 x 3 mm ID  
Order No.: 00F-4435-Y0

See HPLC report for full conditions and separation details.

**Note:** This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.  
Call your Phenomenex Representative for assistance in method development and optimization techniques.

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