## Extraction of Amphetamines From Urine using Strata<sup>™</sup> X-C

### SPE method:\*

Condition: 1mL methanol Equilibrate: 1mL deionized H<sub>2</sub>O Load: 1mL urine (1:1 dilution w/ PBS) spiked with analyte and IS, acidified with 20μL H<sub>3</sub>PO<sub>4</sub>/mL Wash 1: 1mL 5% methanol in 0.1N HCI Wash 2: 1mL 100% methanol Wash 3: 1mL 2.5% TEA/methanol Elute: 1mL 5% NH<sub>4</sub>OH/methanol

Blow down to almost dryness, reconstitute to 200 $\mu$ L with 20mM KH<sub>2</sub>PO<sub>4</sub>, pH 2.5; Inject: 50 $\mu$ L on HPLC

\*Note: the solvent volumes shown above are for 30mg bed mass. The solvent volumes will need to be adjusted for a smaller or larger bed mass.

#### **HPLC Conditions:**

Column: Luna  $5\mu$  C18(2), 150 x 4.6mm; Mobile phase: A=20mM KH<sub>2</sub>PO<sub>4</sub> (pH=2.50), B=ACN Gradient: A/B=95/5 to 75/25 (Flow rate=1.5mL/min) in 7 min, Detection: UV @ 214nm

#### % Recovery Strata-X-C

Peaks	Analytes	Spike conc.	Strata-X-C	% RSD
1	Ephedrin (IS)	0.8 μg/mL		
2	Amphetamine		94	2.86
3	Methamphetamine		101	1.62

#### **Ordering Information**

Description
strata-X-C 30mg/1mL Tubes (100/Box)
strata-X-C 60mg/3mL Tubes (50/Box)
strata-X-C 100mg/6mL Tubes (30/Box)
strata-X-C 200mg/6mL Tubes (30/Box)
strata-X-C 500mg/6mL Tubes (30/Box)
strata-X-C 96-Well Plate 10mg/well (2/Box)
strata-X-C 96-Well Plate 30mg/well (2/Box)

This method is designed as a convenient starting point for further investigation. This method can be tailored to meet your extraction goals. Phenomenex makes no guarantee regarding the accuracy or completeness of the method.

# Chromatogram of Urine Extracts by strata<sup>™</sup> X-C : A) Blank B) Spiked Sample

