

Tetracyclines in Serum

HPLC Method

Column: SymmetryShield™ RP₈, 3.0 x 150 mm, 5 µm
Guard Column: Sentry™ guard column, 3.9 x 20 mm, 5µm
Part numbers: Column - WAT094243, Guard - WAT200675
Mobile phase: 0.1% TFA in Water, Methanol, Acetonitrile 91:2:7
Flow rate: 0.90 mL/min
Injection volume: 20 µL of reconstituted porcine serum extract
Detection: UV @ 350 nm

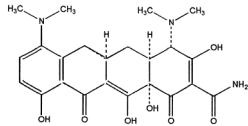
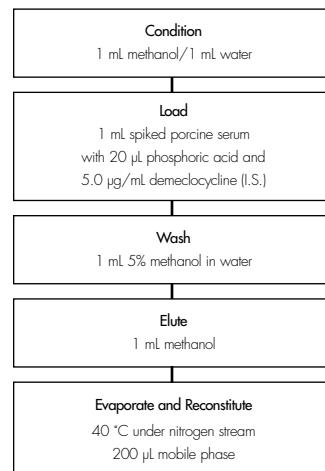
Compounds:

- 1: Minocycline
 2: Tetracycline
 3: Demeclocycline (I.S.)

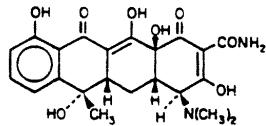
Oasis® HLB Extraction Method

Oasis® HLB 1 cc/30 mg Extraction Cartridge

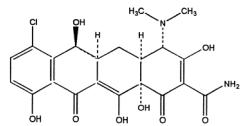
Part Number WAT094225



1. Minocycline

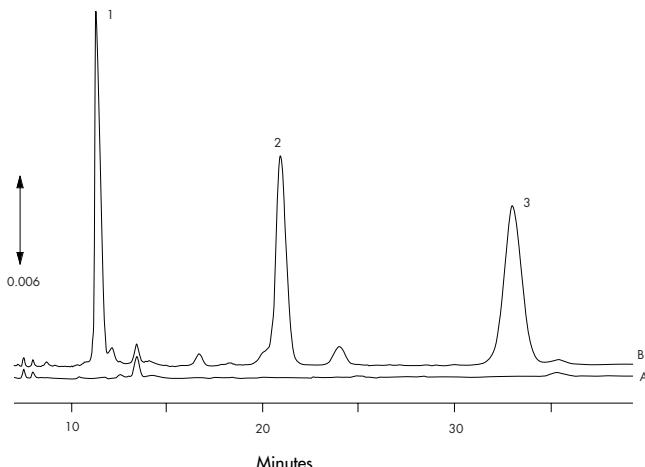


2. Tetracycline



3. Demeclocycline (I.S.)

Chromatogram of Serum Extracts: A) Blank B) Spiked Sample



Compound	Concentration µg/mL	% Recovery	%RSD (n=6)
Minocycline	2.50	96.1%	1.3%
	0.500	88.0%	1.6%
Tetracycline	2.50	101.0%	0.5%
	0.500	97.8%	1.4%