

Antidepressants in Plasma

HPLC Method

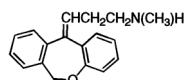
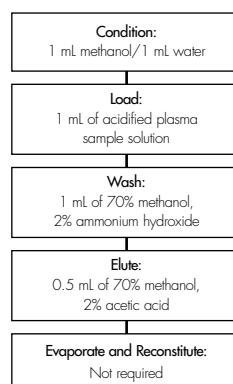
Column: SymmetryShield™ RP₈, 3.9 x 150 mm, 5 µm
Part number: WAT200655
Mobile phase: 100 mM phosphate pH 7.0/acetonitrile/methanol 55:35:10
Flow rate: 1.0 mL/min
Injection volume: 100 µL acidified plasma sample solution
Temperature: 30° C
Detection: UV @ 230 nm

Compounds:

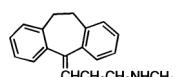
1. Nordoxepin
2. Nortriptyline
3. Norverapamil
4. Doxepin
5. Amitriptyline
6. Verapamil
7. Methoxyverapamil (I.S.)

Oasis® HLB Extraction Method

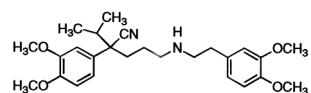
Oasis® HLB 1 cc/30 mg Extraction Cartridge
 Part Number WAT094225



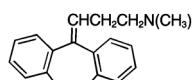
1. Nordoxepin



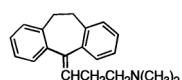
2. Nortriptyline



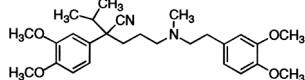
3. Norverapamil



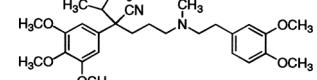
4. Doxepin



5. Amitriptyline

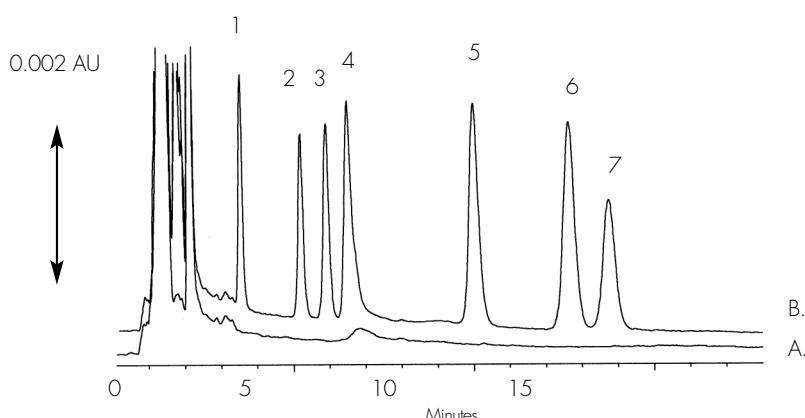


6. Verapamil



7. Methoxyverapamil (I.S.)

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



Compound	Concentration µg/mL	% Recovery	%RSD
	(n=6)		
Amitriptyline	1.46	99.9%	1.10%
	0.29	94.9%	0.60%
Doxepin	1.00	98.4%	0.69%
	0.20	98.0%	2.30%
Nordoxepin	0.50	92.8%	0.91%
	0.10	88.0%	1.33%
Nortriptyline	0.62	95.3%	1.29%
	0.12	91.1%	1.03%
Verapamil	2.50	96.7%	0.63%
	0.50	98.8%	0.70%
Norverapamil	1.00	95.9%	0.59%
	0.20	98.5%	1.04%