

Application Note

Analysis of Tricyclic Antidepressants Using XBridge Phenyl

Waters Corporation

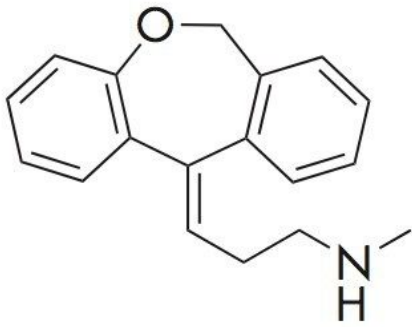


This is an Application Brief and does not contain a detailed Experimental section.

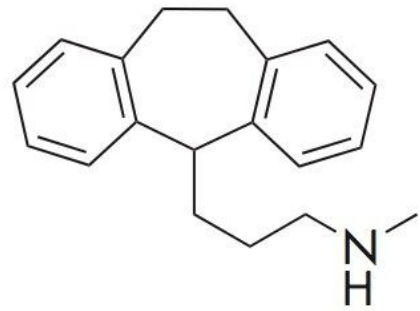
Abstract

This application brief highlights the analysis of tricyclic antidepressants using XBridge Phenyl columns.

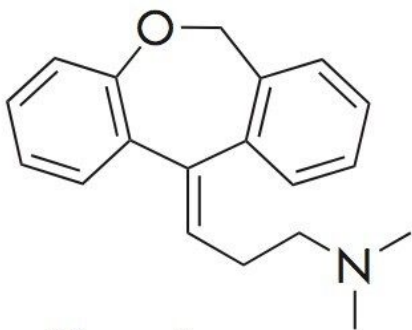
Introduction



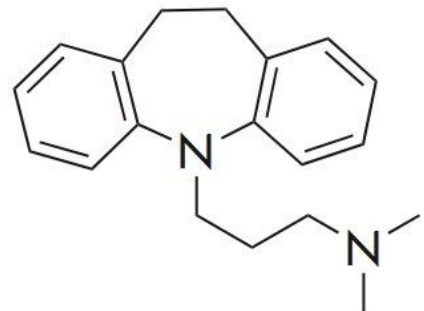
1. Nordoxepin



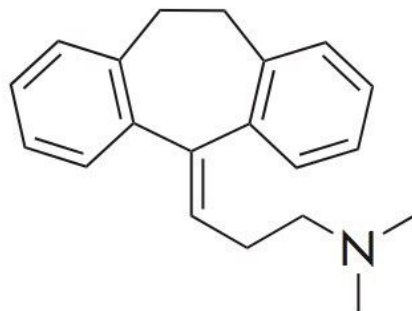
2. Desipramine



3. Doxepin



4. Imipramine



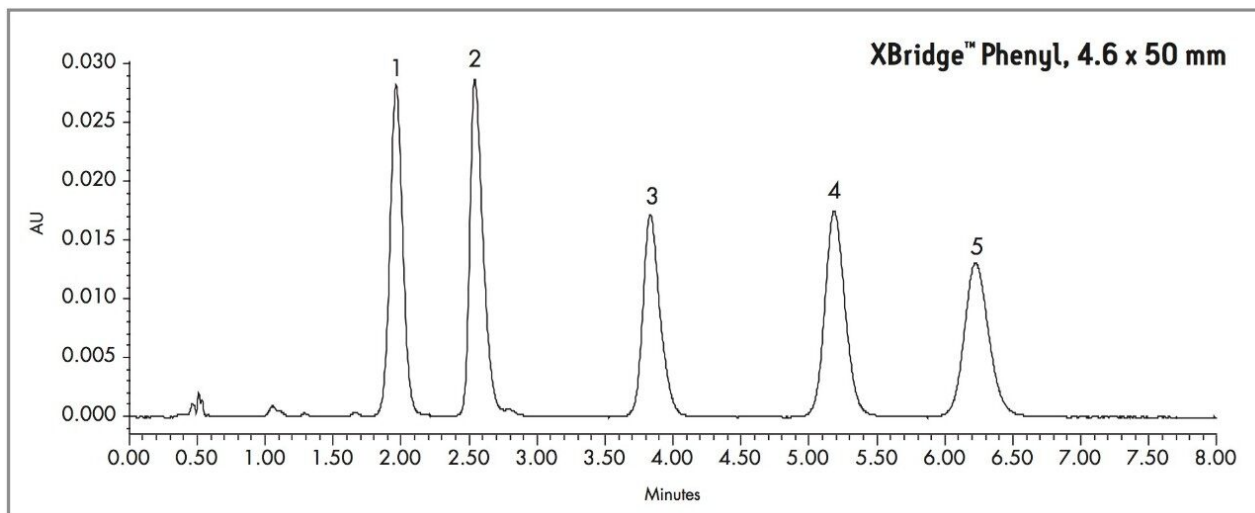
5. Amitriptyline

Experimental

Test Conditions

Columns:	XBridge Phenyl, 4.6 x 50 mm, 3.5 µm p/n: 186003332
Mobile phase A:	H ₂ O
Mobile phase B:	ACN
Mobile phase C:	100 mM NH ₄ HCO ₃
Flow rate:	1.2 mL/min
Isocratic Mobile Phase Composition:	48% A; 42% B; 10% C
Injection volume:	10 µL
Sample:	Nordoxepin (10 µg/mL), Desipramine (10 µg/mL), Doxepin (10 µg/mL), Imipramine (10 µg/mL), Amitriptyline (10 µg/mL) in H ₂ O/ACN (50/50)
Column temp.:	30 °C
Sample temp.:	15 °C
Detection:	UV @ 254 nm
Sampling Rate:	5 points/sec
Filter Response:	0.2
Instrument:	Alliance 2695 with 2996 PDA

Results and Discussion



Compounds: 1. Nordoxepin 2. Desipramine 3. Doxepin 4. Imipramine 5. Amitriptyline.

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