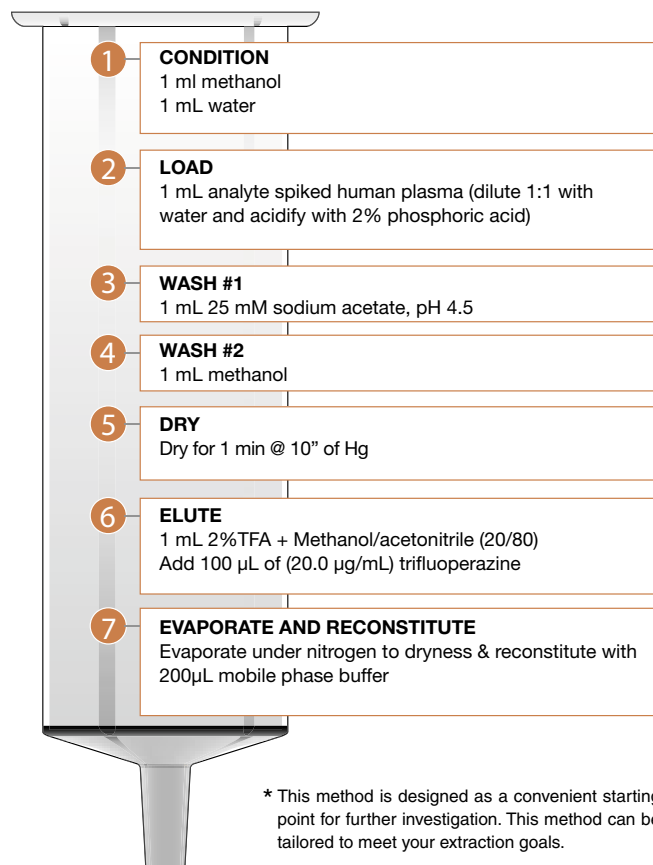
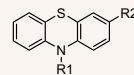


Extraction of Phenothiazines using strata™ X-CW

SPE Procedure* strata-X-C-W 30mg/1mL



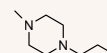
THC-COOH



Chlorpromazine $R_1 = -CH_2-CH_2-CH_2-N(CH_3)_2$, $R_2 = Cl$

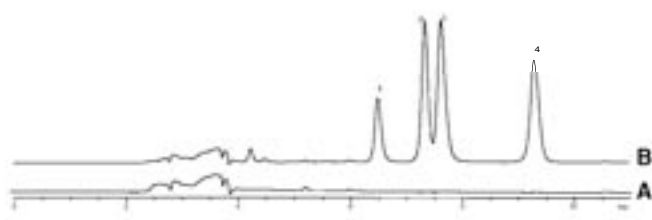
Promazine $R_1 = -CH_2-CH_2-CH_2-N(CH_3)_2$, $R_2 = H$

Trifluoperazine $R_1 =$
 $R_2 = CF_3$



Chromatograms of Plasma Extracts:

A) Blank B) Spiked Sample



HPLC Analysis Conditions:

Column: Luna CN, 5µ, 250X4.6
Order No: 00G-4255-E0
Sample: 50 µL reconstituted plasma
Mobile Phase: A=20 mM KH₂PO₄ (pH =2.5)/ B=acetonitrile (60:40)
Isocratic:
Flow rate: 1.0 mL/min
Temperature: 25° C
Detection: 254 nm
Peaks: 1. Prochlorperazine 3. Trifluoperazine
 2. Promazine HCl 4. Chlorpromazine

Ordering Information

Order Number	Description
8B-S035-TAK-TN	strata-X-CW 30mg/1mL Tubes (100/Box)
8B-S035-UBJ-TN	strata-X-CW 60mg/3mL Tubes (50/Box)
8B-S035-FCH-TN	strata-X-CW 200mg/6mL Tubes (30/Box)
8B-S035-HCH-TN	strata-X-CW 500mg/6mL Tubes (30/Box)
8B-S035-AGB-TN	strata-X-CW 96-Well Plate 10mg/well (2/Box)
8B-S035-TGB-TN	strata-X-CW 96-Well Plate 30mg/well (2/Box)
8B-S035-UGB-TN	strata-X-CW 96-Well Plate 60mg/well (2/Box)

Results (Absolute Recovery)

Analyte	Spiked conc.(µg)/mL	Log P	pKa	%Recovery	%RSD
Prochlorperazine	1.0	4.19	8.1	87%	3.9
Promazine HCl	1.0	4.36	9.4	92%	1.5
Trifluoperazine	2.0	5.03	8.1	IS	
Chlorpromazine	1.0	4.45	9.3	92%	1.6



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