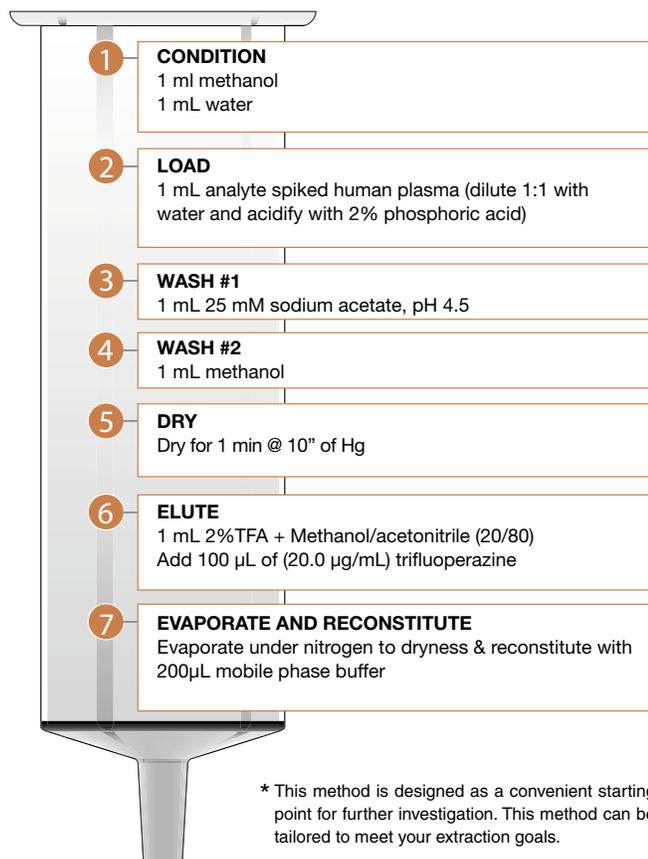


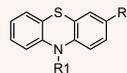
Extraction of Phenothiazines using strata™ X-CW

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



* This method is designed as a convenient starting point for further investigation. This method can be tailored to meet your extraction goals.

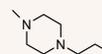
THC-C00H



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

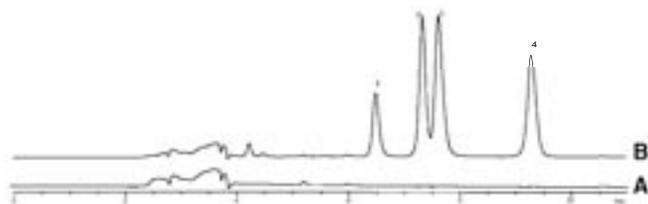
Promazine $R_1 = -CH_2-CH_2-CH_2-N(CH_3)_2$, $R_2 = H$

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 KH ₂ PO ₄ (pH =2.5)/ B=acetonitrile (60:40) |
| Isocratic: | (60:40) |
| 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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