

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE163

ISOLATION OF ANTIPSYCHOTIC DRUGS FROM SERUM

Spe-ed™ Cartridge	Cat. No. 2221 Cyanopropyl (encapped), 100mg/1mL. Process with <i>Spe-ed Mate</i> .
Cartridge Conditioning	1mL methanol 1mL deionized distilled water DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Slowly add 500uL of serum to cartridge. Fill cartridge to top frit. Allow serum to remain in cartridge for 5 minutes, then aspirate sample through cartridge.
Cartridge Wash	100uL deionized water 100uL of acetone Air dry under vacuum for 30 seconds.
Analyte Elution	3 x 500uL of 1% 2.5 N ammonium hydroxide in methanol (v/v). Evaporate under N ₂ stream, and dissolve in 200uL of methanol: methylene chloride (1:1).
HPLC Analysis Column	Silica, 25cm x 4.6mm
Mobile Phase	Heptane: methylene chloride: methanol (70:20:10) W/0.002% triethylamine
Flow Rate	2mL/minute
Detection	263nm UV
Injection	100uL

Note: *Since sample matrix interferences and concentrations may vary from sample to sample, it may be necessary to adjust the wash and elution solvent/solution strength and/or volume to optimize isolation.*

The logo for Applied Separations, featuring the company name in a bold, italicized sans-serif font with horizontal lines above the word "Applied".

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