

SPE

Solid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE152

ISOLATION OF CARBAMAZEPINE FROM SERUM FOR HPLC

Spe-ed™ Cartridge	Cat. No. 12001-Octadecyl C18/18%, 100mg/1mL. Process with Spe-ed Mate .
Cartridge Conditioning	2 x 1mL methanol 2 x 1mL of distilled water DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Add 500uL serum, and 100uL 0.1 M phosphate buffer (pH 3.5) and 100uL internal standard, 200ug/mL 5-p-methylphenyl-5-phenyl hydantoin (MPPH)
Cartridge Wash	3 x 1mL distilled water.
Analyte Elution	2 x 200uL methanol. Evaporation to dryness under nitrogen, and reconstitute in 200uL mobile phase, or inject directly.
CG Conditions	
Column	C18, 10 micron, 2.1mm x 250mm
Mobile Phase	25%acetonitrile/75% 3.5 mM H ₃ PO ₄
Flow	1.5mL/minute
Detector	50°C.
Injection	200nm 0.1 a.u.f.s. 50uL

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.*

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