

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE218**ISOLATION OF CYCLOSPORIN A
FROM WHOLE BLOOD**

Spe-ed™ Cartridge	Cat. No. 12002-Octadecyl C18/18%, 200mg/3mL. Process on <i>Spe-ed Mate</i> .
Sample Preparation	Pipette 2mLs of working I.S. (200mg/mL cyclosporin D in 30% acetonitrile) in a glass test tube (10 x 100). Add 1mL of whole blood, vortex, and centrifuge for 5 minutes.
Cartridge Conditioning	2mL of 95% ethanol, followed by 2mL distilled water.
Sample Addition	Attach reservoir to SPE column. Aspirate hemolyzed sample through the cartridge slowly.
Cartridge Wash	4mLs of 50 / acetonitrile / water
Analyte Elution	300uL 95% ethanol. Then add 200uL of water and 500uL of hexane. Vortex, and centrifuge for 1 minute, then discard hexane layer, and inject 100uL of lower ethanol layer into HPLC.
HPLC Conditions	
Column	C8 Perkin Elmer 4.6mm x 83mm
Volume sample	100uL
Oven Temperature	70°C.
Mobile Phase	65% acetonitrile / water
Flow Rate	1.0mL/minute
Detector	210nm

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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