

SPESolid Phase
Extraction

Application Note

World Leaders in Sample Preparation

SPE159**ISOLATION OF ATENOLOL
FROM HUMAN PLASMA**

Spe-ed™ Cartridge	Cat. No. 2221- Cyanopropyl (encap), 100mg/1mL. Process with <i>Spe-ed Mate</i> .
Cartridge Conditioning	2mL methanol 2mL distilled water DO NOT ALLOW CARTRIDGE TO RUN DRY!
Sample Addition	Add 400uL of plasma to cartridge. Aspirate sample through cartridge.
Cartridge Wash	2 x 2mL distilled water. 2mL acetone Dry cartridge under vacuum
Analyte Elution	2 x 200uL of 10mM acetic acid, 50mM triethylamine in methanol. Collect eluant.
Evaporate Eluant	Evaporate under N ₂ . Suspend in 80uL of mobile phase. Inject 50uL onto analytical column.
HPLC Conditions	25cm x 4.6mm, CN, 6um
Column	Acetonitrile: 0.0125 M ammonium dihydrogen
Mobile Phase	Phosphate: triethylamine (4:96:0.25,v/v) pH 5.5 with phosphate acid.
Flow Rate	1.5mL/minute
Detector	224nm

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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