

Compound: Isepamicin (aminoglycosides)

Suggested SPE Method

Cartridge	Strata-CN (500 mg / 3 mL) 8B-S007-HBJ
Matrix	Plasma or urine
Pretreatment	Combine sample (1 mL) and Buffer A (1 mL) Vortex for 15 s, centrifuge for 7 min at 3100 x g at 4 deg C
Condition/Equilibrate	1) Methanol (2 mL) 2) Water (2 mL) 3) Buffer A (2 mL)
Load	Load onto cartridge
Wash	Buffer A (0.5 mL)
Elute	Buffer C (2 x 0.25 mL)

BUFFER A: In a 500 mL-volumetric flask, combine HPLC grade water (300 mL), sodium hexanesulfonate (0.94 g), and glacial acetic acid (0.5 mL). Dilute to mark with HPLC grade water.

BUFFER B: Dissolve sodium hexanesulfonate (3.76 g) and sodium sulfate (28.4 g) in HPLC grade water (2 L). Acidify to pH 3.4 with glacial acetic acid (approx. 2 mL).

BUFFER C: Buffer B / methanol (9:1).

Suggested HPLC Method

Column	Luna C18(2) 5 um (150 x 4.6 mm)
Injection	
Mobile Phase	Methanol (10%) 0.01 M Hexanesulfonic acid, 0.1 M sodium sulfate, 17 mM acetic acid (90%)
Flow Rate	1.0 mL/min
Temperature	Ambient
Detection	Post column derivatization w/ o-phthalaldehyde
Quantitation limit	100 ng / mL (plasma) ; 50 ng / mL (urine)