

Ranitidine in Serum

HPLC Method

Column: SymmetryShield™ RP₈, 3.9 x 150 mm, 5 μm
Guard Column: Sentry™ guard column, 3.9 x 20 mm, 5 μm
Part numbers: Column - WAT200655, Guard - WAT200675
Mobile phase: 20 mM potassium phosphate, pH 3.0/methanol 97:3
Flow rate: 1.0 mL/min
Injection volume: 50 μL of reconstituted porcine serum extract
Temperature: 30° C
Detection: UV @ 220 nm

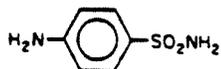
Compounds:

1: Sulfanilamide (I.S.)
 2: Ranitidine

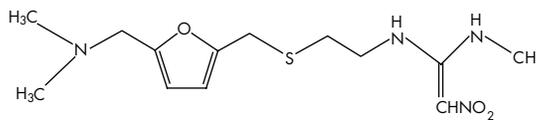
Oasis® HLB Extraction Method

Oasis® HLB 1 cc/30mg Extraction Cartridge
Part Number WAT094225

Condition 1 mL methanol/1 mL water
Load 1 mL spiked porcine serum
Wash 1 mL 5% methanol in water
Elute 1 mL methanol
Evaporate and Reconstitute 40 °C under nitrogen stream 200 μL of 50 μg/mL sulfanilamide (I.S.) in water

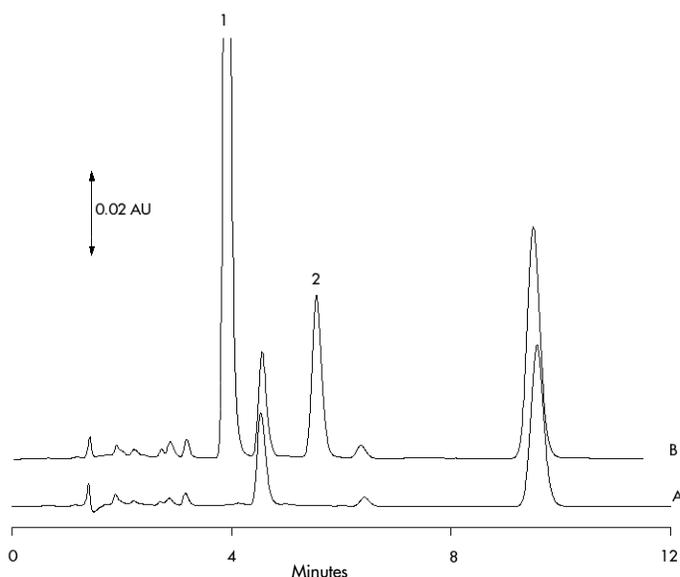


1. Sulfanilamide



2. Ranitidine

Chromatogram of Serum Extracts: A) Blank B) Spiked Sample



Compound	Concentration μg/mL	% Recovery	%RSD (n=6)
Ranitidine	0.100	104%	1.9%
	0.500	102%	1.7%