

Oxytocin and Angiotensins in Serum

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

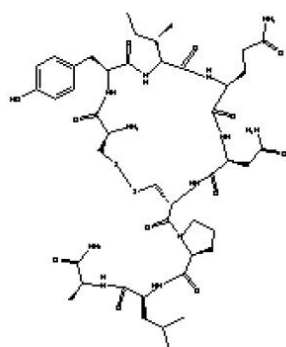
Abstract

This application brief highlights the analysis of oxytocin and angiotensins in serum using SymmetryShield RP₈ and Sentry guard column.

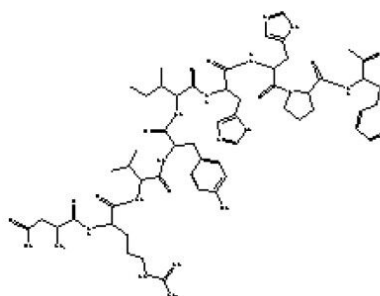
Introduction

Compounds used in this application brief includes:

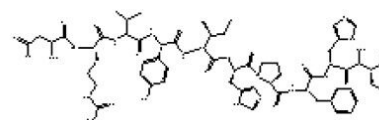
1. Oxytocin
2. Angiotensin II
3. Angiotensin I (I.S.)



1. Oxytocin



2. Angiotensin II



3. Angiotensin I

Experimental

HPLC Method

Column:	SymmetryShield RP ₈ , 4.6 x 100 mm, 3.5 µm (p/n: WAT094226)
Guard Column:	Sentry guard column 3.9 x 20 mm, 3.5 µm (p/n: 186000704)
Mobile phase A:	0.1% TFA in water

Mobile phase B:	Acetonitrile/water 90:10 with 0.1% TFA
Flow rate:	1.4 mL/min
Injection volume:	30 µL of reconstituted porcine extract
Temperature:	30° C
Detection:	UV @ 227 nm

Gradient

Time (min)	%A	%B
0	85	15
22	40	60

Oasis® HLB Extraction Method

Oasis® HLB 1 cc/30 mg Extraction Cartridge

Part Number WAT094225

Condition

1 mL methanol/1 mL water

Load

1 mL spiked porcine serum with
20 µL of phosphoric acid

Wash

1 mL 10% acetonitrile in 0.1% TFA

Elute

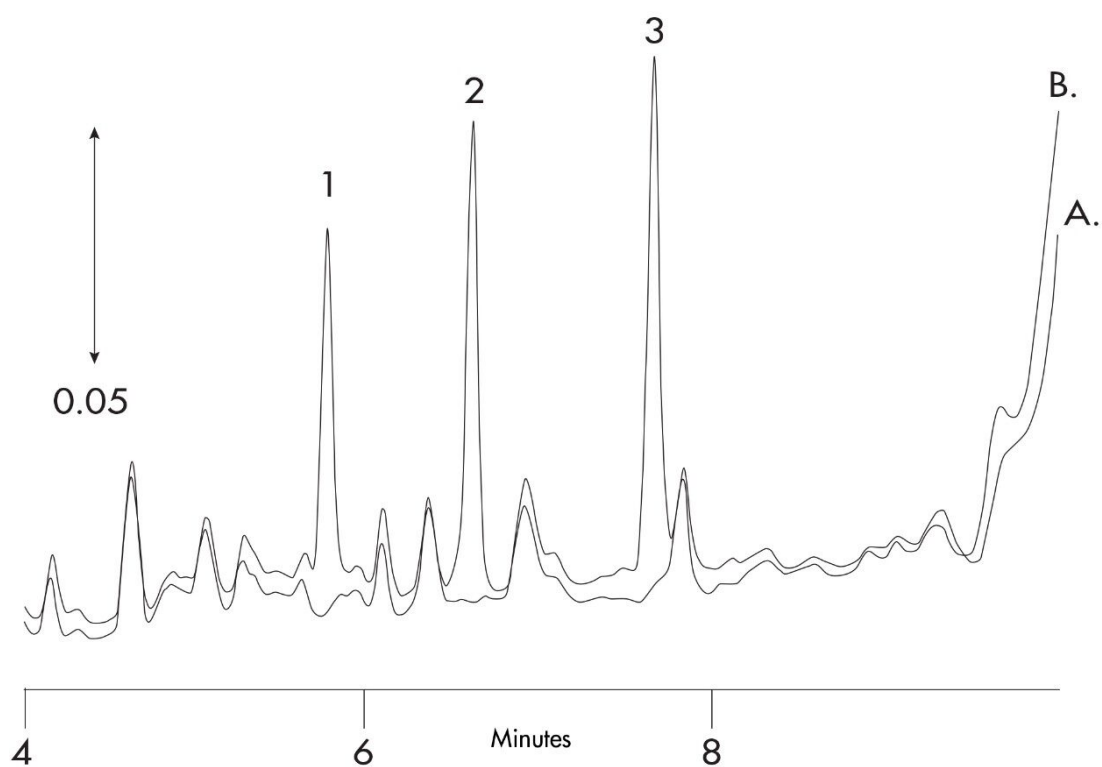
1 mL acetonitrile/water 80:20
(with or without 0.1% TFA-no impact)

Evaporate and Reconstitute

40 °C under nitrogen stream
1 mL 0.1% aqueous TFA (for greater
sensitivity use less volume
for reconstituting sample)

Compound	Concentration μg/mL	% Recovery	%RSD (n=6)
Oxytocin	5.0	103.7%	1.9%
Angiotensin I	5.0	97.8%	2.0%
Angiotensin II	5.0	99.2%	4.3%

Results and Discussion



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