# Waters™

Application Note

# Oxytocin and Angiotensins in Serum

Waters Corporation



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

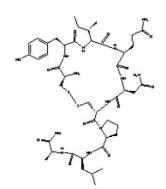
#### **Abstract**

This application brief highlights the analysis of oxytocin and angiotensins in serum using SymmetryShield RP 8 and Sentry guard column.

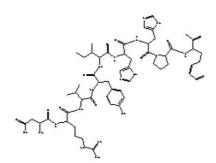
### Introduction

Compouns used in this application brief includes:

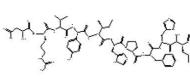
- 1. Oxytocin
- 2. Angiotensin II
- 3. Angiotensin I (I.S.)



1. Oxytocin



2. Angiotensin II



3. Angiotensin I

## Experimental

#### **HPLC Method**

Column: SymmetryShield RP<sub>8</sub>, 4.6 x 100 mm, 3.5  $\mu$ m (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)

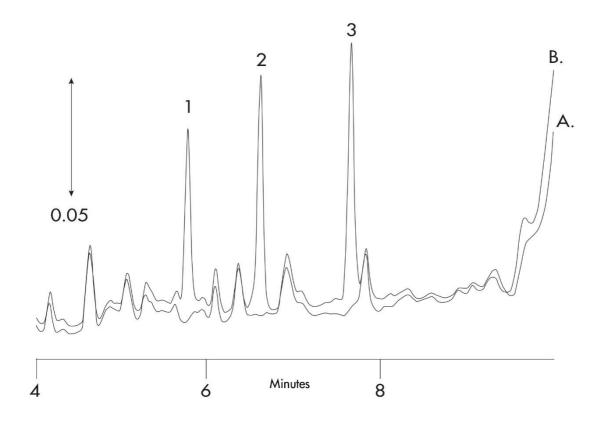
## Evaporate and Reconstitute

40 °C under nitrogen stream

1 mL 0.1% aqueous TFA (for greater sensitivity use less volume for reconstituting sample)

| Compound       | Concentration<br>µg/mL | % Recovery | %RSD<br>(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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