

# HPLC Application

ID No.: 19760

## Testosterone from Male Human Plasma by LC/MS/MS using Strata-X-A and Kinetex 1.7 µm C18

**Column:** Kinetex® 1.7 µm C18 100 Å, LC Column 30 x 2.1 mm, Ea

**Dimensions:** 30 x 2.1 mm ID

**Order No:** 00A-4475-AN

**Elution Type:** Gradient

**Eluent A:** 0.1% Formic Acid +1 mM Amm Formate in Water

**Eluent B:** 0.1% Formic Acid +1 mM Amm Formate in ACN

<b>Gradient Profile:</b>	<b>Step No.</b>	<b>Time (min)</b>	<b>Pct A</b>	<b>Pct B</b>
	<b>1</b>	0	90	10
	<b>2</b>	2.5	10	90
	<b>3</b>	3.5	10	90
	<b>4</b>	3.6	90	10

**Flow Rate:** 0.4 mL/min

**Col. Temp.:** ambient

**Detection:** Mass Spectrometer (MS) @ amu (ambient)

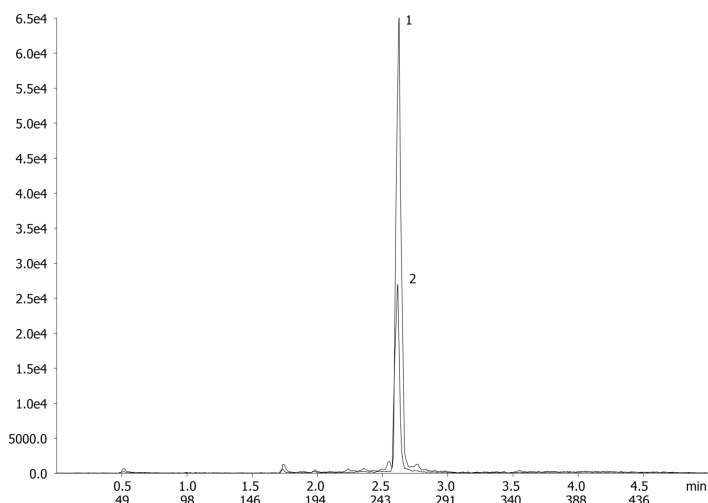
**Detector Info:**

19760

<a target="\_blank" href="https://sciex.com/products/mass-spectrometers?utm\_campaign=2019%20application%20search&utm\_source=phenomenex&utm\_medium=referral">SCIEX<



Products used in this application:



### ANALYTES:

**1** Testosterone

Retention Time: 2.62 min

**2** Testosterone-d3

Retention Time: 2.61 min



# Sample Preparation Details

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## Testosterone from Male Human Plasma by LC/MS/MS using Strata-X-A and Kinetex 1.7 µm C18

### PRODUCT DESCRIPTION:

Strata<sup>™</sup>-X-A 33 µm Polymeric Strong Anion, 30 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S123-TBJ

### SOLID PHASE EXTRACTION (SPE) PROCEDURE:

**Note:** The solvent volumes shown below are for a 30 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

#### Condition:

#### Load:

#### Wash:

#### Dry:

Dry for 5 min under high vacuum

#### Elute:

#### Final Prep and Analysis:

Following evaporation of elution solvent @ 50-55 C under gentle nitrogen stream;  
Add 50 µL 25% hydroxylamine solution and heat at 60-65 C for 5-10 min, then add 200 µL 5%

Inject: 0 µL on HPLC Mass Spectrometer (MS) @ amu (ambient)

<b>ANALYTES:</b>	<b>Spiked Conc. (ng/mL)</b>	<b>Log P</b>	<b>pKa</b>	<b>% Rec</b>	<b>%RSC (n=0)</b>
1 Testosterone	0				
2 Testosterone-d3	0.5				

**Note:** This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.  
Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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