

Separation of Testosterone on Newcrom R1 HPLC column

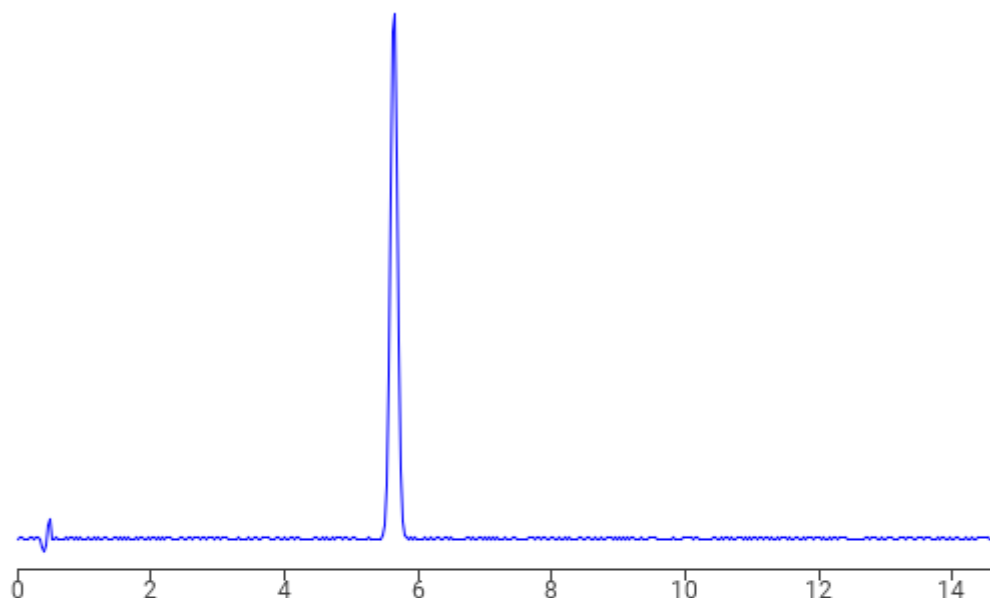
CALCULATED CHROMATOGRAM

<https://sielc.com/separation-of-testosterone-on-newcrom-r1-hplc-column>

Chromatogram

CALCULATED CHROMATOGRAM – NOT AN EXPERIMENTAL RESULT

The result was obtained by a proprietary SIELC algorithm. It may deviate from the actual experimental data.



Column phase:	Newcrom R1
Mobile phase:	MeCN/H ₂ O/H ₃ PO ₄ - 50/50/0.1
Flow rate:	1.0 mL/min
Column size:	100 x 3.2 mm, 3 µm

Description

Testosterone is an anabolic steroid which is the primary male sex hormone. It is produced naturally by both males and females; however, males produce much more than females. Testosterone supplements can be used if there is not enough testosterone in the body. Testosterone can be analyzed by this reverse phase (RP) HPLC method with simple conditions. The mobile phase contains acetonitrile (MeCN), water, and phosphoric acid. For Mass-Spec (MS) compatible applications the phosphoric acid needs to be replaced with formic acid. Smaller 3 µm particle columns are available for fast UPLC applications. This liquid chromatography method is scalable and can be used for isolation of impurities in preparative separation. It also suitable for pharmacokinetics.