Separation of Diphenhydramine hydrochloride on Newcrom R1 HPLC column

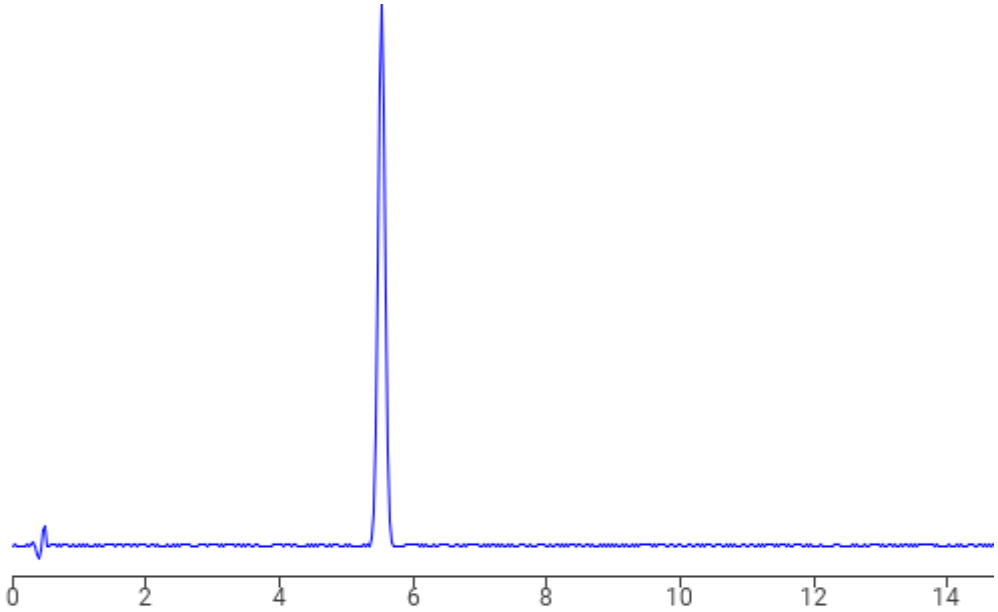
CALCULATED CHROMATOGRAM

https://sielc.com/separation-of-diphenhydramine-hydrochloride-on-newcrom-c18-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/H2O/H3PO4 - 50/50/0.1
Flow rate:	1.0 mL/min
Column size:	100 x 3.2 mm, 3 µm

Description

Diphenhydramine hydrochloride can be analyzed by this reverse phase (RP) HPLC method with simple conditions. The mobile phase contains an 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 particles columns available for fast UPLC applications. This liquid chromatography method is scalable and can be used for isolation impurities in preparative separation. It also suitable for pharmacokinetics.