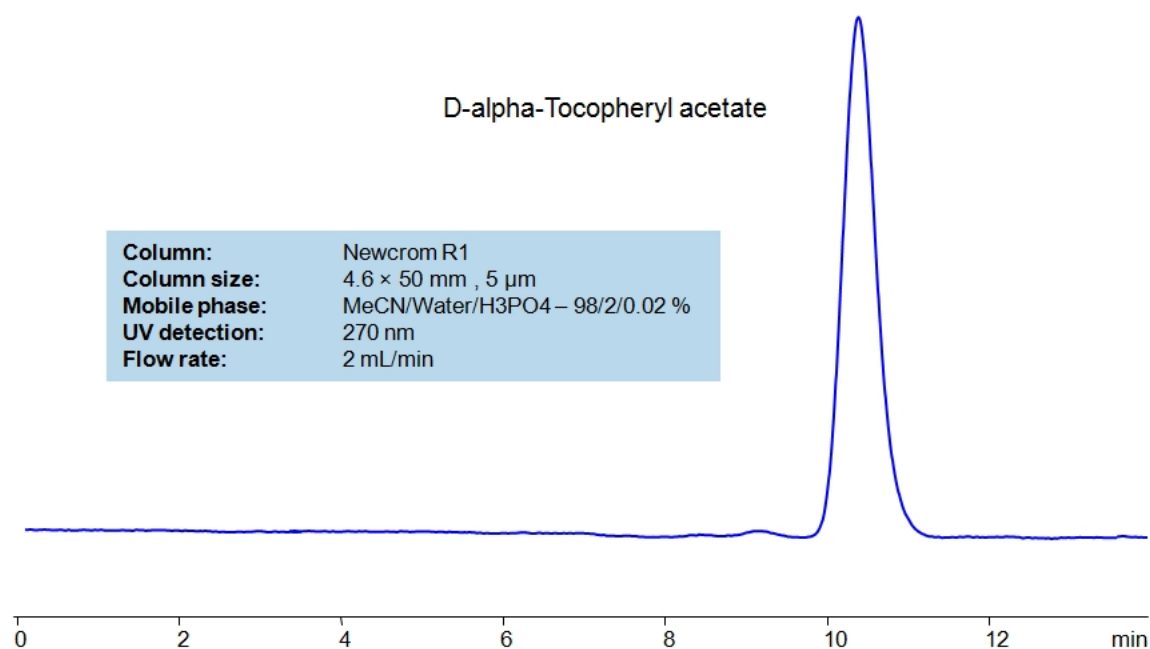


HPLC Method for Analysis of D-alpha-Tocopheryl acetate

<https://sielc.com/hplc-method-for-analysis-of-d-alpha-tocopheryl-acetate>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of D-alpha-Tocopheryl acetate

D-alpha-Tocopheryl acetate is a form of Vitamin E with a molecular formula of $C_{31}H_{52}O_3$. It is also known as alpha-tocopheryl acetate. It is often used in cosmetics, food, and dietary supplements due to its antioxidant properties.

D-alpha-Tocopheryl acetate can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a phosphoric acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 98/2%
Buffer	H ₃ PO ₄ – 0.02 %
Flow Rate	2.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Drug, Vitamin, Hydrophobic
Analyzing Compounds	D-alpha-Tocopheryl acetate

HPLC Column Used

Newcrom R1, 4.6 x 50 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)