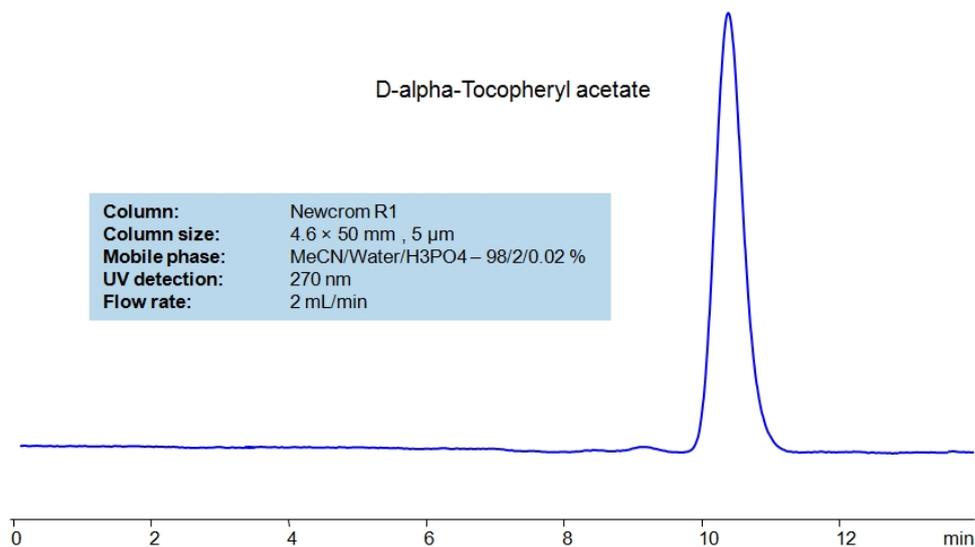


HPLC Method for Analysis of D-alpha-Tocopheryl acetate



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

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

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