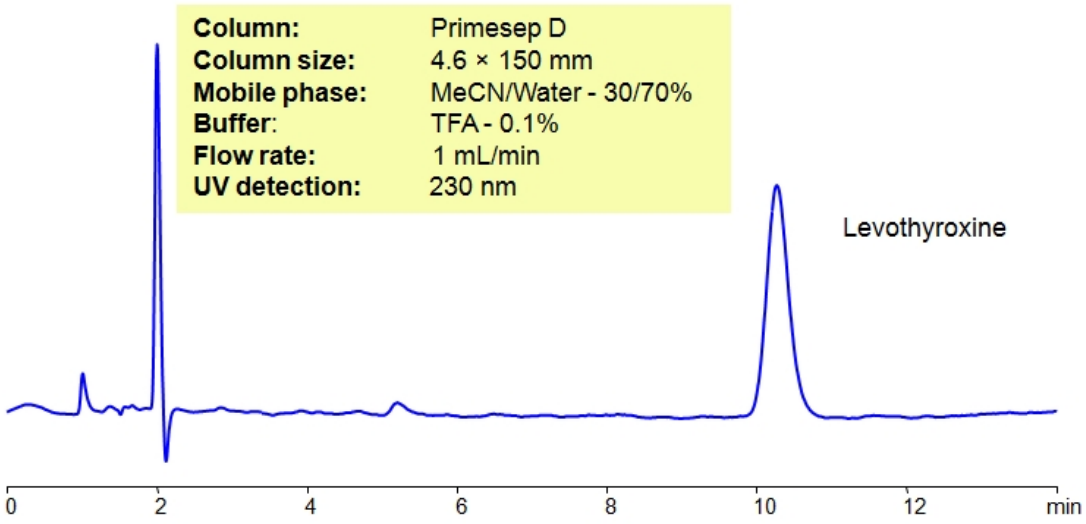
HPLC Method for Analysis of Levothyroxine Sodium Tablets



High Performance Liquid Chromatography (HPLC) Method for Analysis of Levothyroxine (T4)

Levothyroxine Sodium is a synthetic thyroid hormone that is used to treat hypothyroidism by replacing T4 (Levothyroxine) that is not being produced in necessary accounts. IT's absorption can be affected by antacids, calcium, and iron salts.

Levothyroxine Sodium can be retained and analyzed using the Primesep D stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a trifluoroacetic acid buffer. Detection is performed using UV.

Method Parameters

Column	Primesep D, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 30/70%
Buffer	TFA – 0.1%
Flow Rate	1.0 mL/min
Detection	UV, 230 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-levothyroxine-sodium-tablets