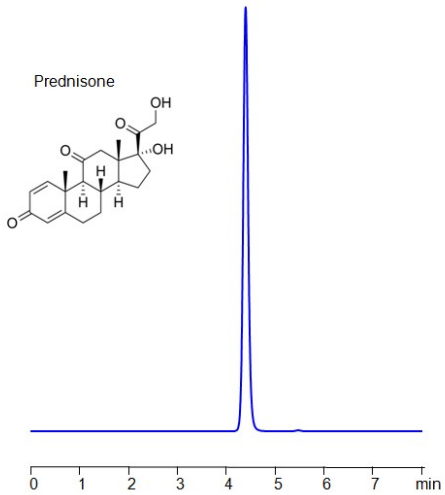
HPLC Method for Analysis of Prednisone on Primesep B Column



Column:	Primesep B
Column size:	4.6 × 150 mm, 5 µm
Column part number:	B-46.150.0510
Mobile phase:	MeCN - 35%
Buffer:	H_2SO_4 - 0.1%
Flow rate:	1.0 ml/min
Detection:	UV 245 nm

Prednisone is a synthetic corticosteroid drug that belongs to the class of glucocorticoids. It is a prodrug, meaning that it is biologically inactive until it undergoes metabolic activation in the liver, where it is converted into its active form, prednisolone. Both prednisone and prednisolone have anti-inflammatory and immunosuppressant properties and are used for various medical conditions.

Prednisone can be retained, and analyzed using a Primesep B mixed-mode stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and sulfuric acid as a buffer. Detection is achieved using UV 245 nm

Method Parameters

Column	Primesep B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 35%
Buffer	H2SO4 – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 245 nm

Quelle: https://sielc.com/hplc-method-for-analysis-prednisone

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