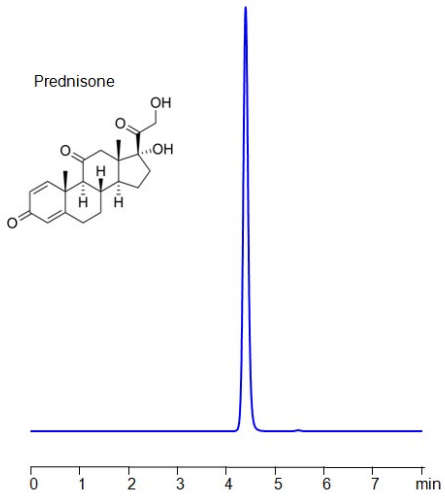
# HPLC Method for Analysis of Prednisone on Primesep B Column

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|---|---|
| **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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