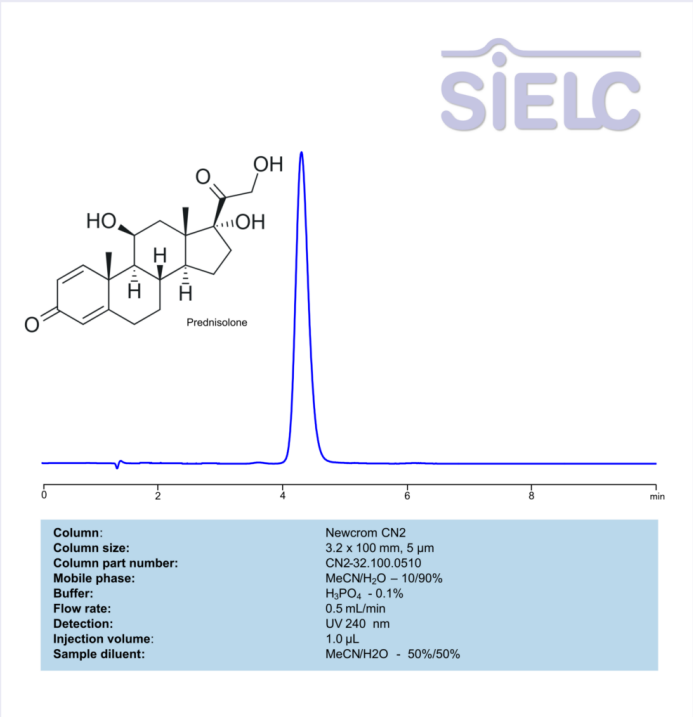
HPLC Method for Analysis of Prednisolone on Newcrom CN2 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Prednisolone

Prednisolone is an organic compound with the molecular formula C21H28O5 .

Properties: Appearance: Typically a white to practically white, odorless, crystalline powder.

Molecular weight: ~360.4 g/mol

Solubility: Soluble in organic solvents like methanol, dioxane, and ethanol.

Uses: A widely used corticosteroid medication that provides relief from various health conditions by reducing inflammation and suppressing the immune system.

Prednisolone can be retained and analyzed using the Newcrom CN2 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and phosphoric acid. Detection is performed using UV at 240 nm.

Method Parameters

Column	Newcrom CN2, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 10%
Buffer	H3PO4 – 0.1%
Flow Rate	0.5 mL/min
Detection	UV 240 nm

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