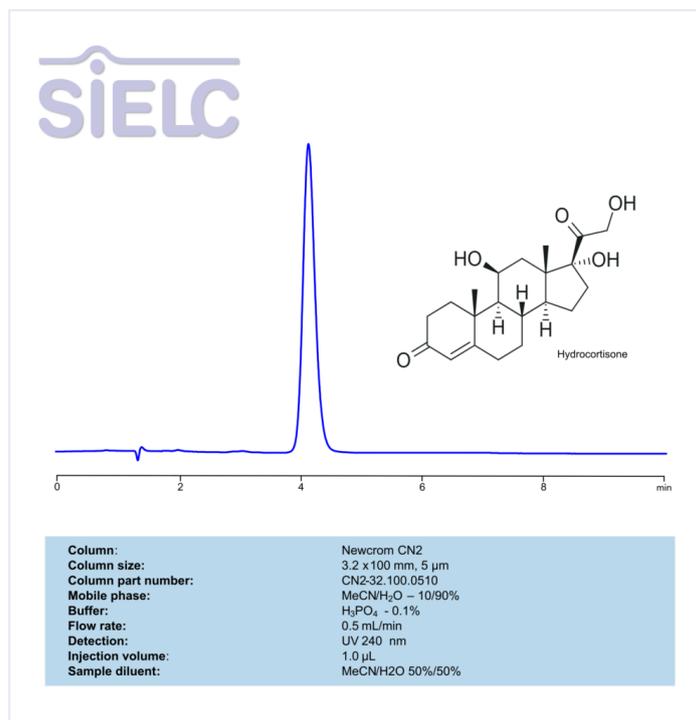


## HPLC Method for Analysis of Hydrocortisone on Newcrom CN2 Column



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

Hydrocortisone is an organic compound with the molecular formula C<sub>21</sub>H<sub>30</sub>O<sub>5</sub>.

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

Molecular weight: ~362.5 g/mol

Solubility: Soluble in organic solvents like ethanol.

Uses: A corticosteroid medication used to treat various conditions by reducing inflammation and suppressing the immune system.

Hydrocortisone 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

<b>Column</b>	Newcrom CN2, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN – 10%
<b>Buffer</b>	H <sub>3</sub> PO <sub>4</sub> – 0.1%
<b>Flow Rate</b>	0.5 mL/min
<b>Detection</b>	UV 240 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-hydrocortisone-2>