

## HPLC Method for Analysis of Cortisone 21-Acetate on Primesep 100 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Cortisone 21-acetate is a synthetic corticosteroid used in the treatment of various inflammatory and autoimmune conditions. It is the acetate ester of cortisone, which increases its stability and bioavailability when administered.

Cortisone 21-acetate is a prodrug of cortisone, which is converted to its active form, cortisol, in the liver. Cortisol exerts its effects by binding to glucocorticoid receptors, which modulate the expression of anti-inflammatory proteins and inhibit the expression of pro-inflammatory proteins.

Cortisone 21-Acetate can be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and phosphoric acid as a buffer. This method allows for detection using UV 200 nm.

You can find detailed UV spectra of Cortisone 21-Acetate and information about its various lambda maxima by visiting the following link .

## Method Parameters

<b>Column</b>	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN – 50%
<b>Buffer</b>	H3PO4 -0.2%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 250 nm
<b>Injection Volume</b>	1 µl

Quelle: <https://sielc.com/hplc-method-cortisone-21-acetate>