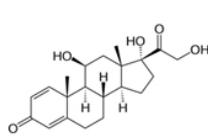
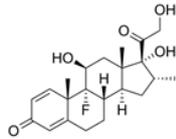


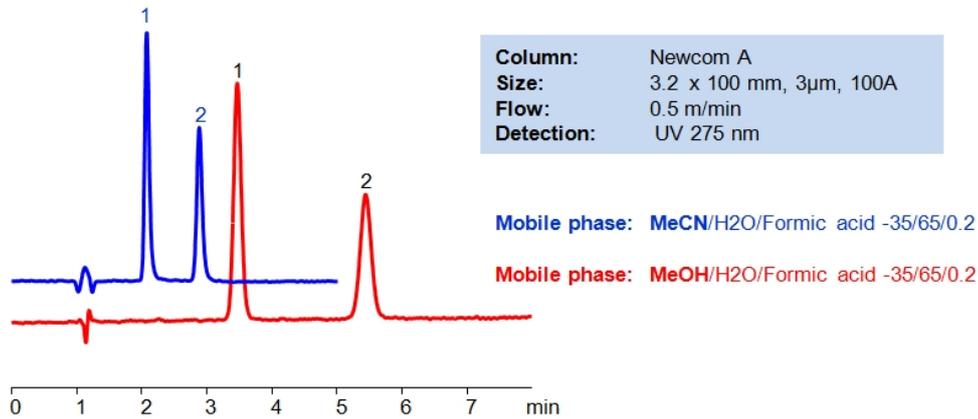
## HPLC Method of Analysis for Dexamethasone and Prednisolone



1. Prednisolone



2. Dexamethasone



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

Dexamethasone is a corticosteroid that is used as a replacement of the natural hormone produced by adrenal glands when the body can't produce enough on its own. It has also been found to reduce deaths among the critically ill patients with the COVID-19. Prednisolone is another corticosteroid used to treat a variety of inflammatory conditions and has a similar structure to dexamethasone. Both steroids can be retained and separated in HPLC using Newcom A mixed-mode column with the mobile phase consisting of either acetonitrile (ACN) or methanol (MeOH) and water with formic acid buffer. Methanol offers longer retention time compared to acetonitrile. UV detection at 275 nm.

You can find detailed UV spectra of Dexamethasone , Prednisolone and information about its various lambda maxima by visiting the following link.

### Method Parameters

<b>Column</b>	Newcom A, 3.2 x 100 mm, 3 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN, MeOH
<b>Buffer</b>	Formic Acid – 0.2%
<b>Flow Rate</b>	0.5 mL/min
<b>Detection</b>	UV, 275 nm

Quelle: <https://sielc.com/hplc-method-of-analysis-for-dexamethasone-and-prednisolone>