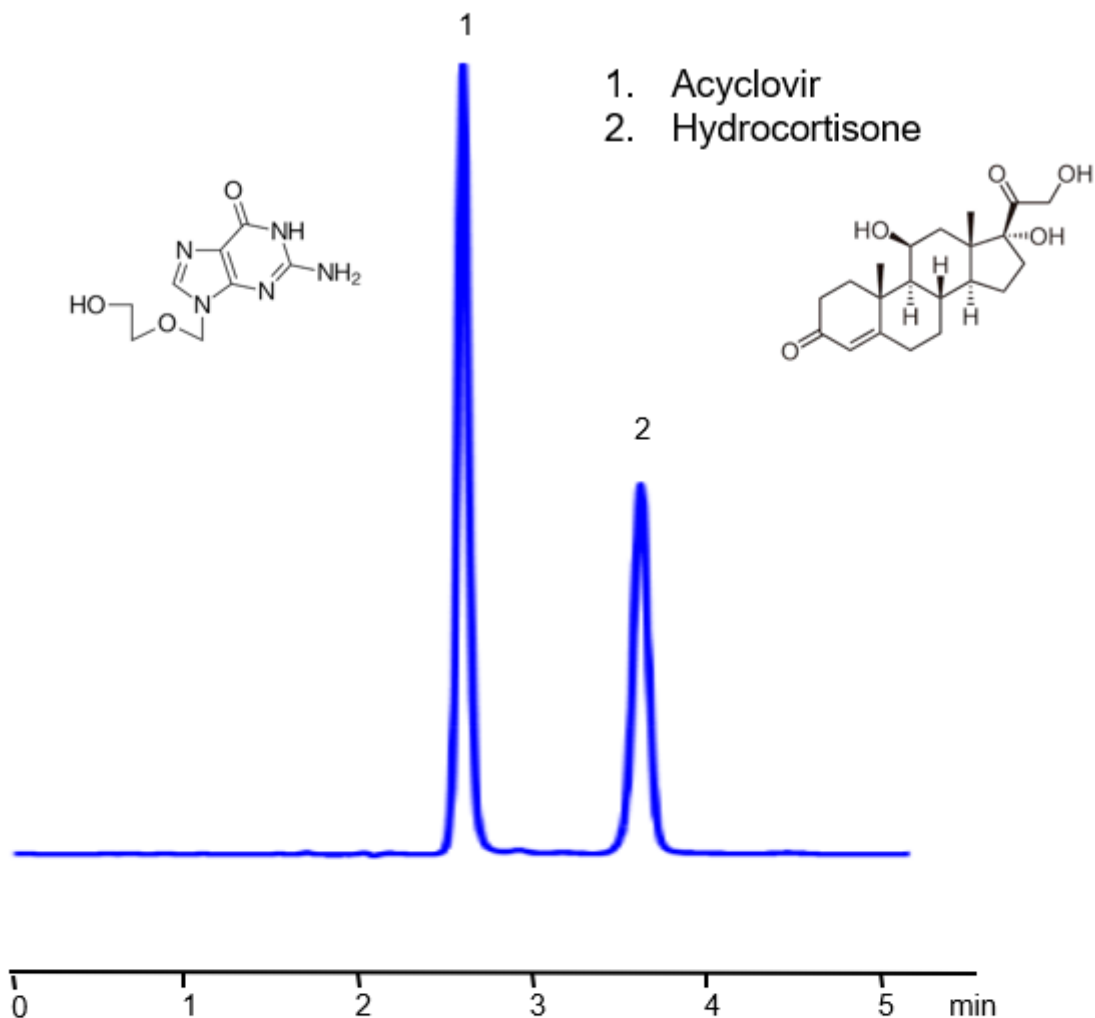


# HPLC Method for Simultaneous Determination of Acyclovir and Hydrocortisone on Primesep 100 Column

<https://sielc.com/hplc-method-for-simultaneous-determination-of-acyclovir-hydrocortisone>

## Chromatogram



<b>Column:</b>	Primesep 100
<b>Column size:</b>	3.2 × 150 mm, 5 µm
<b>Column part number:</b>	100-32.150.0510
<b>Mobile phase:</b>	MeCN - 35%
<b>Buffer:</b>	H <sub>2</sub> SO <sub>4</sub> - 0.1%
<b>Flow rate:</b>	0.5 mL/min
<b>Detection:</b>	UV 254 nm

## Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Acyclovir , Hydrocortisone .

Acyclovir , also known as Aciclovir, is an anti-viral medication with the chemical formula  $C_8H_{11}N_5O_3$  . It is used to treat viral infections caused by a group of viruses called herpes simplex viruses. These infections include oral and genital herpes, as well as shingles. It can also be used to treat chickenpox in children. After it was discovered, Acyclovir was considered the start of a new era in antiviral medicine.

Hydrocortisone is a common corticosteroid with the molecular formula  $C_{21}H_{30}O_5$  . A corticosteroid medication used to treat various conditions by reducing inflammation and suppressing the immune system. It is used for conditions such as adrenogenital syndrome, thyroiditis, dermatitis, asthma, and more. It is on the World Health Organization's List of Essential Medicines. Hydrocortisone is effective in reducing mortality rate of critically ill COVID-19 patients. You can find detailed UV spectra of Hydrocortisone and information about its various lambda maxima by visiting the following link.

Acyclovir , Hydrocortisone can be separated, retained, and analyzed on a Primesep 100 column mixed-mode column using an isocratic analytical method with a simple isocratic mobile phase of water, Acetonitrile (MeCN), and a sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) buffer. This analysis method can be UV detected at 254 nm with high resolution and peak symmetry.

#### Method Parameters

<b>Mobile Phase</b>	MeCN – 35%
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> – 0.1%
<b>Flow Rate</b>	0.5 ml/min
<b>Detection</b>	UV 254 nm
<b>Class of Compounds</b>	Drug
<b>Analyzing Compounds</b>	Acyclovir,Hydrocortisone

#### HPLC Column Used

**Primesep 100, 3.2 x 150 mm, 5 µm, 100 Å, dual ended**

[Order this column at hplc-shop.de](https://www.hplc-shop.de) →