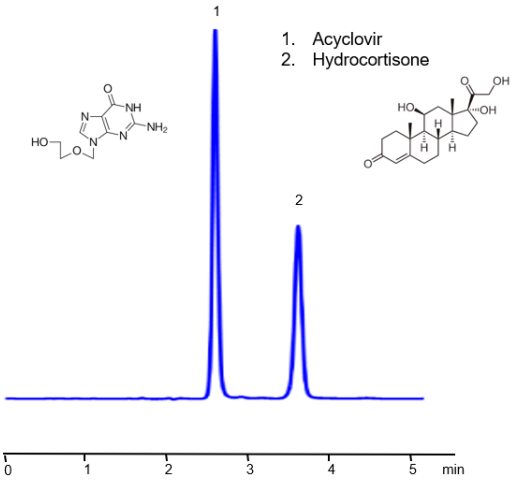
HPLC Method for Simultaneous Determination of Acyclovir and Hydrocortisone on Primesep 100 Column



Column:	Primesep 100
Column size:	3.2 × 150 mm, 5 µm
Column part number:	100-32.150.0510
Mobile phase:	MeCN - 35%
Buffer:	H_2SO_4 - 0.1%
Flow rate:	0.5 mL/min
Detection:	UV 254 nm

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 C8H11N5O3 . 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 C21H30O5 . 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 (H2SO4) buffer. This analysis method can be UV detected at 254 nm with high resolution and peak symmetry.

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Method Parameters

Column	Primesep 100, 3.2 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 35%
Buffer	H2SO4 – 0.1%
Flow Rate	0.5 mL/min
Detection	UV 254 nm

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