

HPLC MS Method for Analysis of Evogliptin and Mannitol in Pharmaceutical Dosage Form on Primesep 200 Column



Evogliptin is a drug that belongs to the class of dipeptidyl peptidase-4 (DPP-4) inhibitors. It is used primarily for the treatment of type 2 diabetes mellitus. DPP-4 inhibitors work by blocking the action of the enzyme DPP-4, which in turn increases the levels of incretin hormones such as GLP-1 (glucagon-like peptide-1). This increase helps to stimulate insulin release and suppress glucagon secretion, thereby helping to regulate blood sugar levels in patients with diabetes.

Evogliptin can be retained, and analyzed using a Primesep 200 mixed-mode stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and Ammonium Formate as a buffer. Detection is achieved using UV at 265 nm

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

Method Parameters

Column	Primesep 200, 2.1 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 70/30%
Buffer	Formic Acid – 0.2%
Flow Rate	0.2 mL/min
Detection	UV 265 nm, SIM + 402

Quelle: <https://sielc.com/hplc-ms-method-for-analysis-evogliptin>