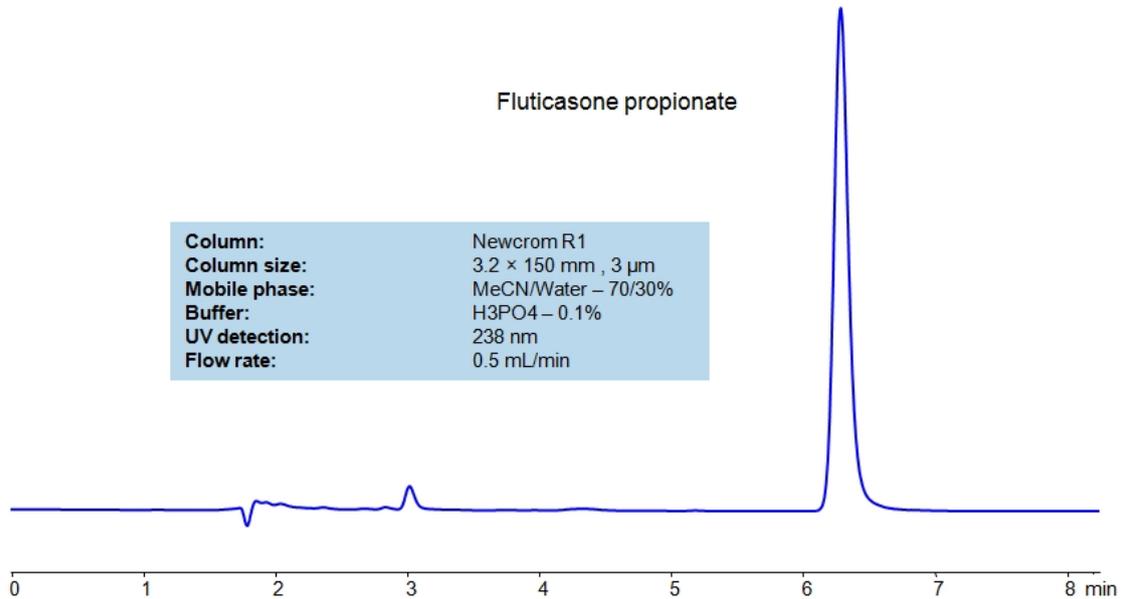


HPLC Method for Analysis of Fluticasone Propionate in Nasal Spray on Newcrom R1 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Fluticasone propionate

Fluticasone Propionate is a corticosteroid used to treat inflammatory conditions. It is available in multiple forms, most notably as a nasal spray, inhaler, and a topical cream. It reduces inflammation through binding glucocorticoid receptors inside cells, preventing production and release of inflammatory mediators like histamines, cytokines, and leukotrienes.

Fluticasone Propionate can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Column	Newcrom R1, 3.2 x 100 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 70/30%
Buffer	H ₃ PO ₄ – 0.1%
Flow Rate	0.5 mL/min
Detection	UV, 238 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-fluticasone-propionate-in-nasal-spray>