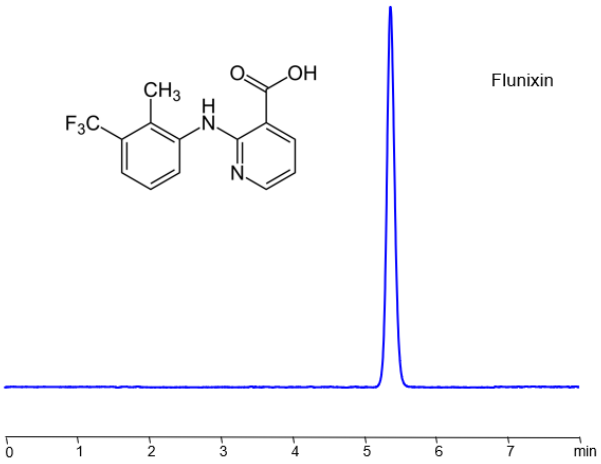
HPLC Method for Determination of Flunixin on Primesep 100 Column



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H_2O – 60/40%
Buffer:	H_2SO_4 - 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 252 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Flunixin

Flunixin is an analgesic and antipyretic nonsteroidal anti-inflammatory drug (NSAID) with the chemical formula C14H11F3N2O2 . It is used primarily by veterinarians in bovine and equine treatments. Prolonged consecutive use can cause health problems due to toxicity. Due to that, it is a prohibited substance under International Federation for Equestrian Sports rules. It is typically produced as a Meglumine salt, which helps stabilize and bulk up the medication in its solid form. You can find detailed UV spectra of Flunixin and information about its various lambda maxima by visiting the following link.

Flunixin can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 60%
Buffer	H2SO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 252 nm

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