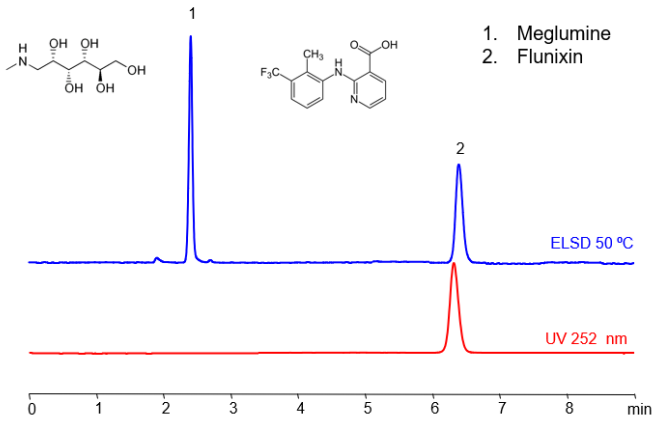
HPLC Method for Determination of Flunixin and Meglumine on Primesep 100 Column



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:	TFA - 0.2%
Flow rate:	1.0 mL/min
Detection:	ELSD 50 ºC, UV 252 nm

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.

Meglumine is a sugar alcohol with the chemical formula C7H17NO5 . It is a derivative of glucose that is used primarily as an excipient in pharmaceuticals. You can find detailed UV spectra of Meglumine and information about its various lambda maxima by visiting the following link.

Meglumine (N-Methyl-D-glucamine) , Flunixin can be retained, separated, and analyzed on a Primesep 100 mixed-mode stationary phase 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 252 nm (Flunixin) with high resolution and peak symmetry and is compatible with Mass Spectrometry (MS), ELSD, and CAD.

AugustaChrom - Dr. Roland Kießwetter
Tel.: +49 821 599 783 70
Fax: +49 821 599 783 71
E-Mail: info@hplc-shop.de

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 60%
Buffer	TFA – 0.2%
Flow Rate	1.0 mL/min
Detection	ELSD, 50C, UV 252 nm

Quelle: https://sielc.com/hplc-method-for-determination-of-flunixin-meglumine-on-primesep-100-column