

HPLC Method for Analysis of Alachlor on Primesep 100 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Alachlor is a chloroacetanilide herbicide used to control annual grasses and broadleaf weeds primarily in corn and soybean crops. It is known for its pre-emergent activity, meaning it is applied to the soil to prevent weed germination and growth.

Alachlor be retained and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV 200 nm

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 μ m, 100 Å, dual ended
Mobile Phase	MeCN – 55%
Buffer	H ₂ SO ₄ -0.1%
Flow Rate	1.0 mL/min
Detection	UV 200 nm
Injection Volume	1 μ l

Quelle: <https://sielc.com/hplc-method-for-alachlor>