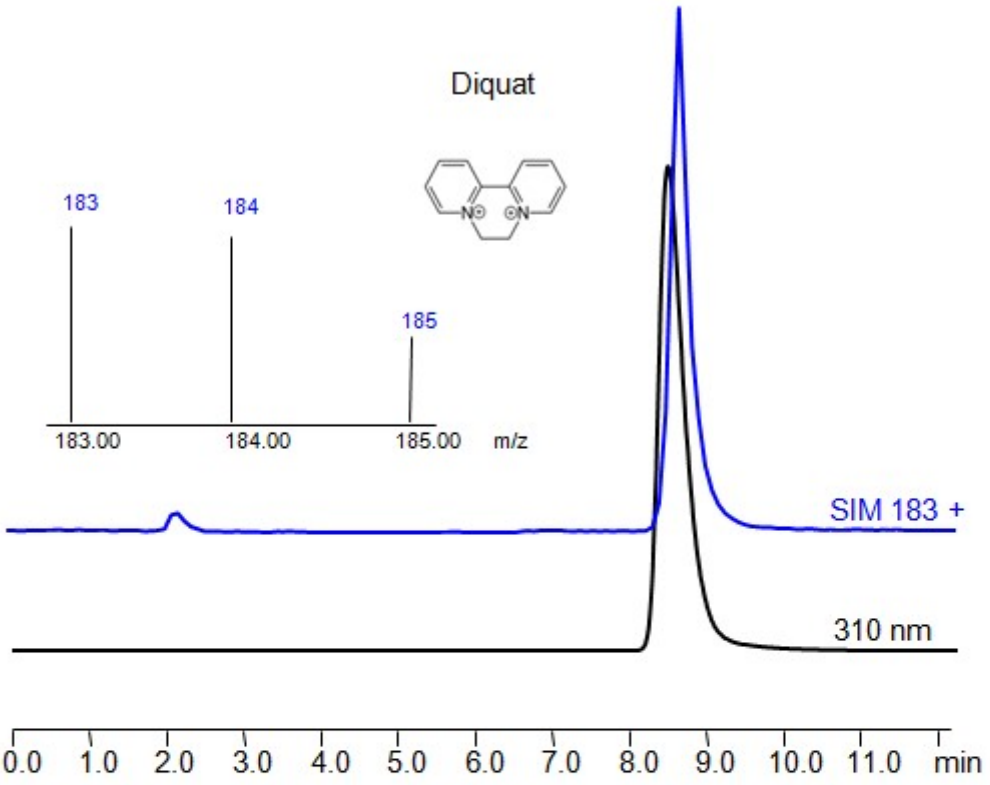
HPLC – MS Method for Analysis of Diquat on Obelisc R Column

https://sielc.com/hplc-method-ms-for-analysis-of-diquat

Chromatogram



Column:	Obelisc R
Column size:	2.1 × 100 mm, 5 µm
Column part number:	OR-21.100.0510
Mobile phase:	MeCN/H_2O – 50/50%
Buffer:	Ammonium formate pH 3.0 – 50 mM
Flow rate:	0.2 mL/min
Detection:	UV 310 nm, SIM 183 +
Sample:	0.8 mg/ml
Injection volume:	1 µl

Description

· HPLC Method for Analysis of Diquat on Obelisc R Column by SIELC Technologies

Diquat is a non-selective contact herbicide used in agriculture and landscaping. It’s known for its effectiveness in controlling a wide range of weeds and plants.

diquat is a potent herbicide used for controlling a broad spectrum of weeds and as a desiccant in agriculture. While effective, its toxicity and environmental impact necessitate careful handling and adherence to regulatory guidelines.

Diquat can be retained and analyzed on a Obelisc R mixed-mode stationary phase column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a ammonium format as a buffer. This analysis method can be detected an Evaporative Light Scattering Detector (ELSD), or any other evaporative detection method (CAD, ESI-MS)

Method Parameters

Mobile Phase	MeCN – 50%,
Buffer	Ammonium Formate pH 3.0-50 mM
Flow Rate	0.2 ml/min
Detection	SIM 183 +, UV 310 nm
Spray Voltage:	1.5 kV
Nebulizing gas:	1.5 L/min
Drying gas:	15 L/min
DL temp:	250 ■C
Heat Block:	400 ■C
Class of Compounds	Pesticides
Analyzing Compounds	Diquat

HPLC Column Used

Obelisc R, 2.1 x 100 mm, 5 µm, 100 A, dual ended

Order this column at hplc-shop.de →