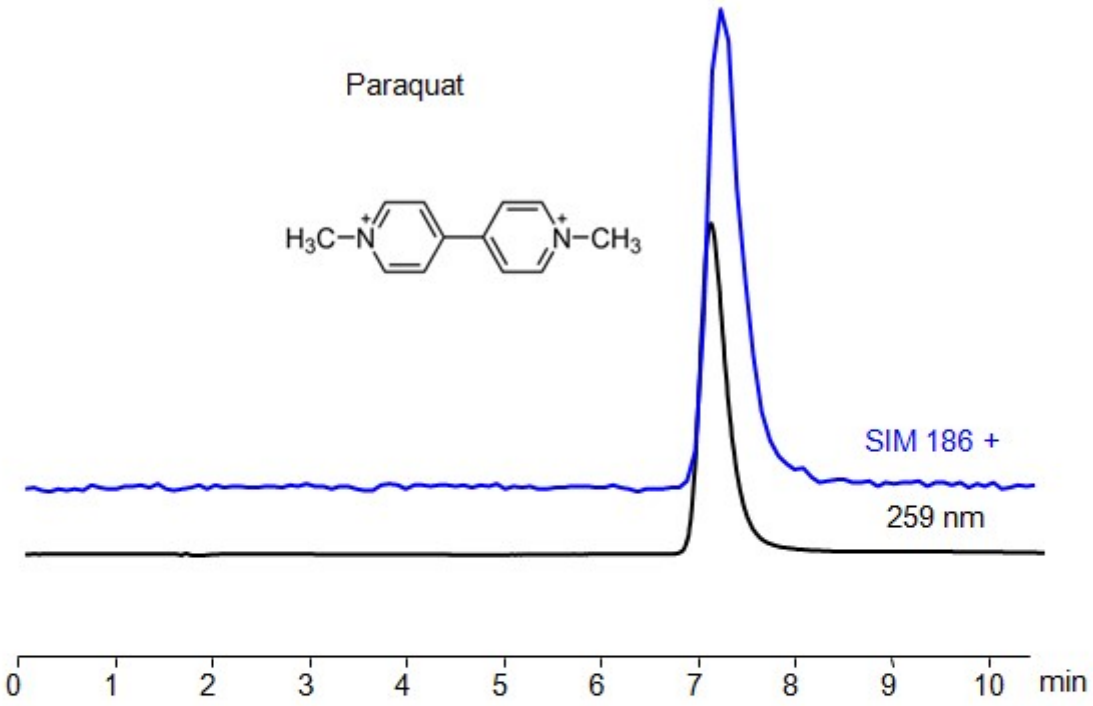
HPLC – MS Method for Analysis of Paraquat on Obelisc R Column

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

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 259 nm, SIM 186 +
Sample:	0.8 mg/ml
Injection volume:	1 µl

Description

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

Paraquat is a widely used, non-selective herbicide known for its high efficacy in controlling a wide range of weeds. It has been an important tool in agriculture since its introduction in the mid-20th century. However, its use is accompanied by significant safety concerns due to its high toxicity.

Paraquat 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 186 +, UV 259 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	Paraquat

HPLC Column Used

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

Order this column at hplc-shop.de →