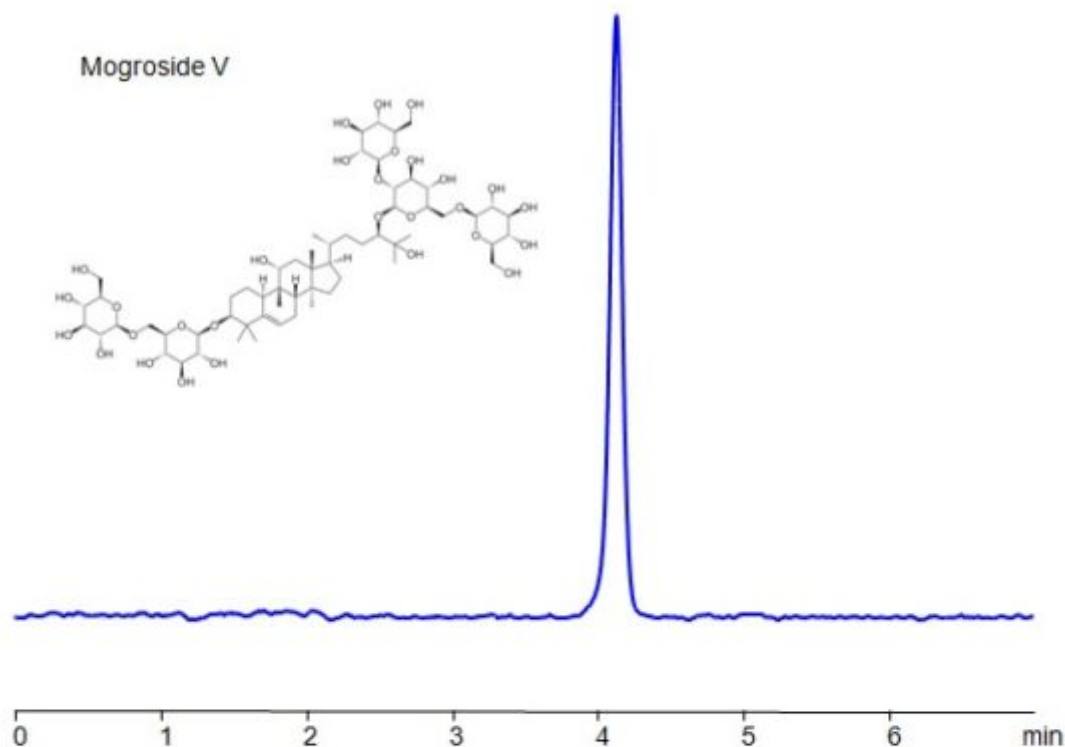


HPLC ELSD Method for Analysis of Mogroside V on Primesep AP Column

<https://sielc.com/hplc-determination-of-mogroside-v>

Chromatogram



Column:	Primesep AP
Column size:	4.6× 150 mm, 5 µm
Column part number:	AP-46.150.0510
Mobile phase:	MeCN/H ₂ O – 80/20%
Buffer:	Acetic acid – 0.5%
Flow rate:	1.0 mL/min
Sample:	0.7 mg/ml
Injection volume:	5 µl
Detection:	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)

Description

· HPLC Method for Analysis of Mogroside V on Primesep AP by SIELC Technologies

Mogroside V is a natural compound and a type of cucurbitane glycoside with the chemical formula C₆₀H₁₀₂O₂₉. It is primarily found in the fruit of the luohanguo (*Siraitia grosvenorii*) plant, also known as monk fruit. Monk fruit has been used in traditional Chinese medicine for its sweetening properties and potential health benefits.

Mogroside V can be retained and analyzed on a Primesep AP mixed-mode stationary phase column using an analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and acetic acid as a buffer. This analysis method can be detected using ELSD.

Method Parameters

Mobile Phase	MeCN – 80%
Buffer	Acetic acid – 0.5%
Flow Rate	1.0 ml/min
Detection	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
Sample	0.7 mg/ml in MeCN/H ₂ O – 50/50%
Injection volume	5 µl
Class of Compounds	Bis-biguanide
Analyzing Compounds	Mogroside V

HPLC Column Used

Primesep AP, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](http://hplc-shop.de)