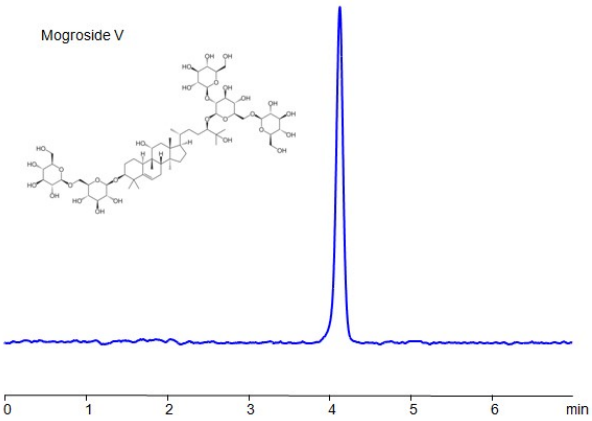
HPLC ELSD Method for Analysis of Mogroside V on Primesep AP Column



Column:	Primesep AP
Column size:	4.6× 150 mm, 5 µm
Column part number:	AP-46.150.0510
Mobile phase:	MeCN/H_2O – 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)

Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Mogroside V is a natural compound and a type of cucurbitane glycoside. It is primarily found in the fruit of the luo han guo (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.

Sweetening Agent: Mogroside V is known for its intense sweetness without providing calories. It is used as a natural sweetener and is often used as an alternative to traditional sweeteners due to its low-calorie content.

Chemical Structure: Mogroside V is a glycoside composed of the aglycone mogrol and several glucose molecules. Its structure contributes to its sweet taste.

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

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 AP, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 80%
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/H2O – 50/50%
Injection Volume	5 µl

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