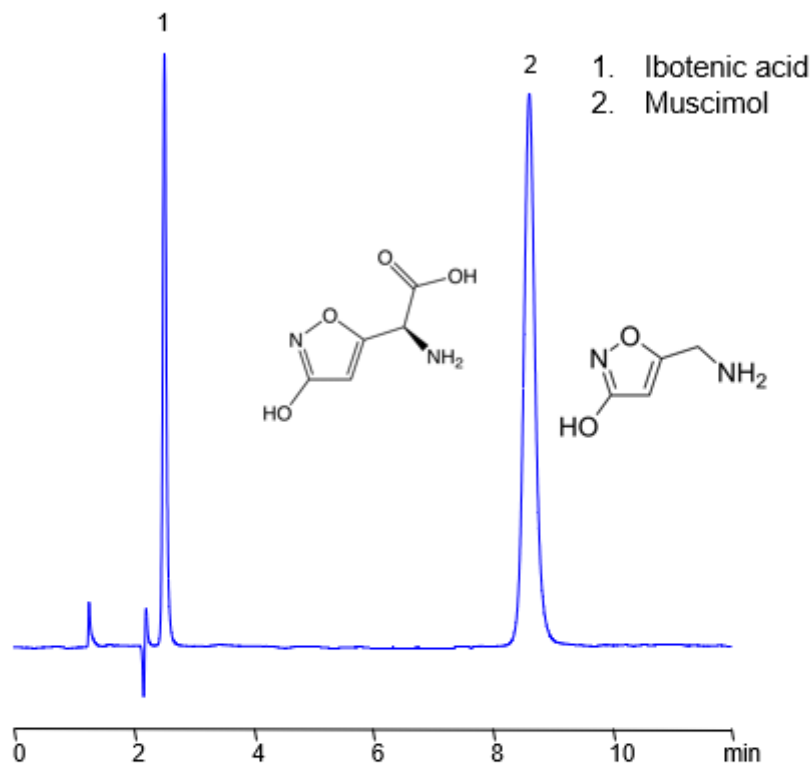


HPLC Method for Separation of Ibotenic Acid and Muscimol on a Primesep 100 Column

<https://sielc.com/hplc-determination-of-ibotenic-muscimol>

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 20/80%
Buffer:	H ₂ SO ₄ - 0.05%
Flow rate:	1.0 mL/min
Detection:	UV 200 nm

Description

· Method for Separation of Muscimol , Ibotenic acid on Primesep 100 by SIELC Technologies

Ibotenic acid , also known as ibotenate , premuscimol or as (S)-2-amino-2-(3-hydroxyisoxazol-5-yl)acetic acid , is an α-amino acid with the chemical formula C₅H₆N₂O₄ . It is a metabotropic glutamate receptor agonist found in certain Amanita mushrooms. It is known for its neurotoxic properties. You can find detailed UV spectra of Ibotenic acid and information about its various lambda maxima by visiting the following link.

Muscimol , also known as agarin , pantherine , and pyroibotenic acid , is a psychoactive GABA-A agonist with the chemical formula C₄H₆N₂O₂ . It is found in Amanita mushrooms. Muscimol is well known for its psychoactive, hallucinogenic, and sedative properties. You can find detailed UV spectra of Muscimol and information about its various lambda maxima by visiting the following link.

Muscimol , Ibotenic acid can be retained, separated, and analyzed on a mixed-mode Primesep 100 column with a mobile phase consisting of water, Acetonitrile (MeCN), and Sulfuric acid (H₂SO₄). This analytical method can be UV detected at 200 nm with high resolution and peak symmetry.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	H ₂ SO ₄ – 0.05%
Flow Rate	1.0 ml/min
Detection	UV 200 nm
Peak Retention Time	2.22 min, 8.52 min
Class of Compounds	Acid
Analyzing Compounds	Muscimol,Ibotenic acid

HPLC Column Used

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

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