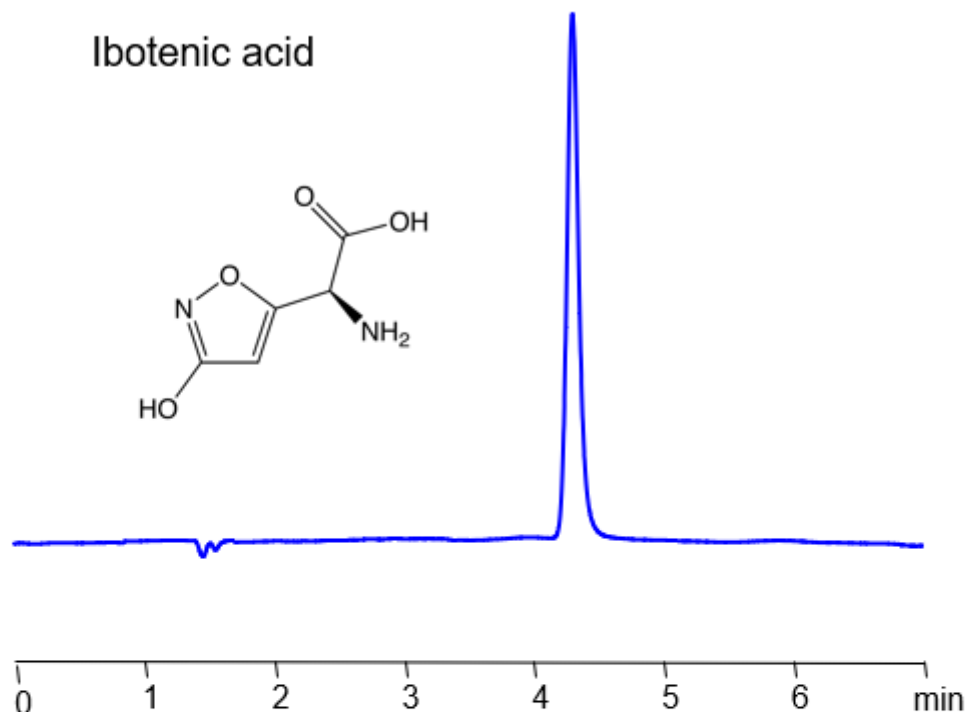


HPLC Method for Analysis of Ibotenic Acid on Primesep A Column

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

Chromatogram



Column:	Primesep A
Column size:	4.6 × 150 mm, 5 µm
Column part number:	A-46.150.0510
Mobile phase:	MeCN/H ₂ O – 50/50%
Buffer:	H ₃ PO ₄ – 0.1%
Flow rate:	1.0 mL/min
Detection:	UV 210 nm

Description

Ibotenic acid, also known as ibotenate, premuscol 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.

Ibotenic acid can be retained, separated, and analyzed on a mixed-mode Ibotenic acid column with a mobile phase consisting of water, Acetonitrile (MeCN), and Phosphoric acid (H₃PO₄). This analytical method can be UV detected at 210 nm with high resolution and peak symmetry.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 5/95%
Buffer	H ₃ PO ₄ – 0.1%
Flow Rate	1.0 ml/min
Detection	UV 210 nm
Peak Retention Time	4.12 min
Class of Compounds	Acid
Analyzing Compounds	Ibotenic acid

HPLC Column Used

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

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