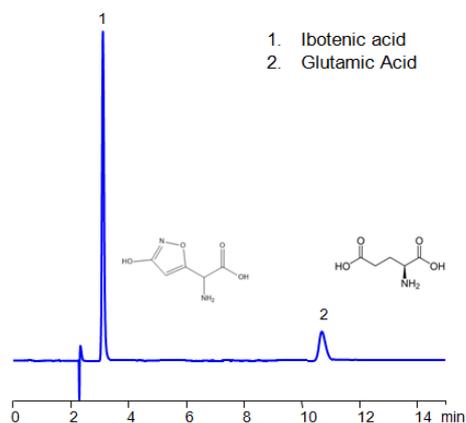


HPLC Method for Separation of Ibotenic Acid and Glutamic Acid on Primesep A Column



Column:	Primesep A
Column size:	4.6 × 150 mm, 5 µm
Column part number:	A-46.150.0510
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

Separation type: Liquid Chromatography Mixed-mode

Ibotenic acid is a psychoactive NDMA and metabotropic glutamate receptor agonist with neurotoxic properties. These structurally similar psychoactive drugs can be retained, separated, and analyzed on a mixed-mode Primesep A 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

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

Quelle: <https://sielc.com/hplc-separation-of-ibotenic-glutamic-2>