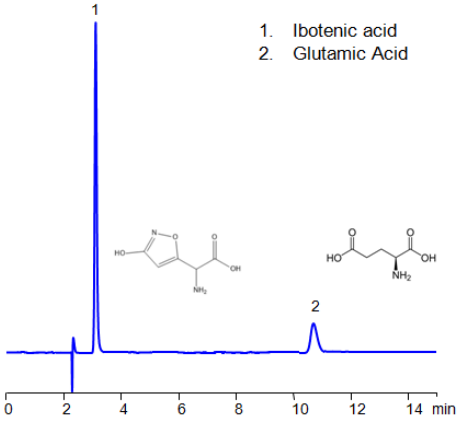
HPLC Method for Separation of Ibotenic Acid and Glutamic Acid on Primesep A Column



Column:	Primesep A
Column size:	4.6 × 150 mm, 5 µm
Column part number:	A-46.150.0510
Mobile phase:	MeCN/H_2O – 5/95%
Buffer:	H3PO4 – 0.1%
Flow rate:	1.0 mL/min
Detection:	UV 210 nm

Separation type: Liquid Chromatography Mixed-mode

Ibotenic acid is a physchoactive 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/H2O – 5/95%
Buffer	H3PO4 – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 210 nm

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