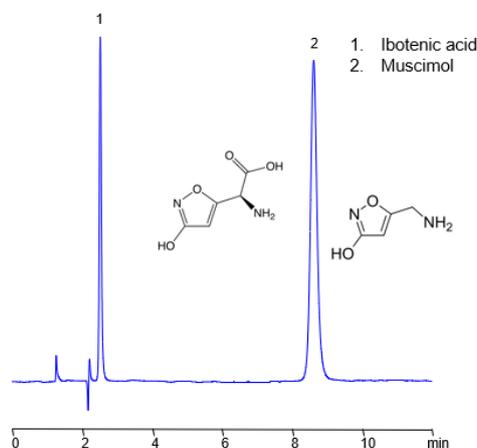


## HPLC Method for Separation of Ibotenic Acid and Muscimol on a Primesep 100 Column



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

Separation type: Liquid Chromatography Mixed-mode

Ibotenic acid is a psychoactive NDMA and metabotropic glutamate receptor agonist with neurotoxic properties. Muscimol (also known as agarin or pantherine) is a psychoactive GABA-A agonist. Both are naturally occurring compounds found in *Amanita muscaria* and related species of mushrooms. These structurally similar psychoactive drugs 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 (H<sub>2</sub>SO<sub>4</sub>). This analytical method can be UV detected at 200 nm with high resolution and peak symmetry.

### Method Parameters

<b>Column</b>	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 20/80%
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> – 0.05%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 200 nm

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