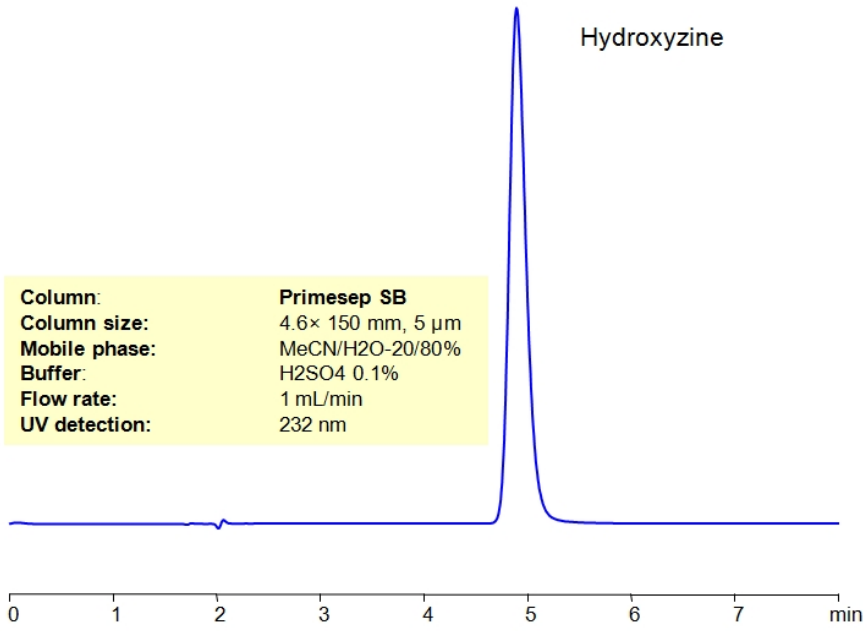
## HPLC Method for Determination of Hydroxyzine in Tablets on Primesep SB Column




Hydroxyzine is an antihistamine medication that is used to treat various conditions.

Antihistamine: Hydroxyzine belongs to the class of drugs known as first-generation antihistamines. It works by blocking the effects of histamine, a natural substance in the body that is involved in allergic reactions.

Uses: Hydroxyzine is used to treat itching caused by allergies, as well as to relieve symptoms of allergic reactions such as hives. It is also used as a sedative to manage anxiety and tension.

Allergic Reactions: In the context of allergic reactions, hydroxyzine helps alleviate symptoms like itching, redness, and swelling by blocking histamine receptors.

Anxiolytic Properties: It has sedative and anxiolytic (anxiety-reducing) properties, and it is sometimes prescribed to manage anxiety and tension.

Forms: Hydroxyzine is available in various forms, including tablets, capsules, and oral solutions. It can also be administered by injection in certain medical situations.

Precautions: It's important to use hydroxyzine with caution, especially in situations that require alertness, as it can cause drowsiness. It should be avoided or used with caution in individuals with certain medical conditions.

Prescription Required: Hydroxyzine is typically available by prescription, and the dosage should be determined by a healthcare professional based on the specific condition being treated.

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Hydroxyzine be retained and analyzed using a Primesep SB mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV at 232 nm

## Method Parameters

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| **Column** | Primesep SB, 4.6 x 150 mm, 5 µm, 100 Å, dual ended |
| **Mobile Phase** | MeCN/H2O – 20/80% |
| **Buffer** | H2SO4 – 0.1% |
| **Flow Rate** | 1.0 mL/min |
| **Detection** | UV, 232 nm |

Quelle: https://sielc.com/hplc-determination-of-hydroxyzine-in-tablets