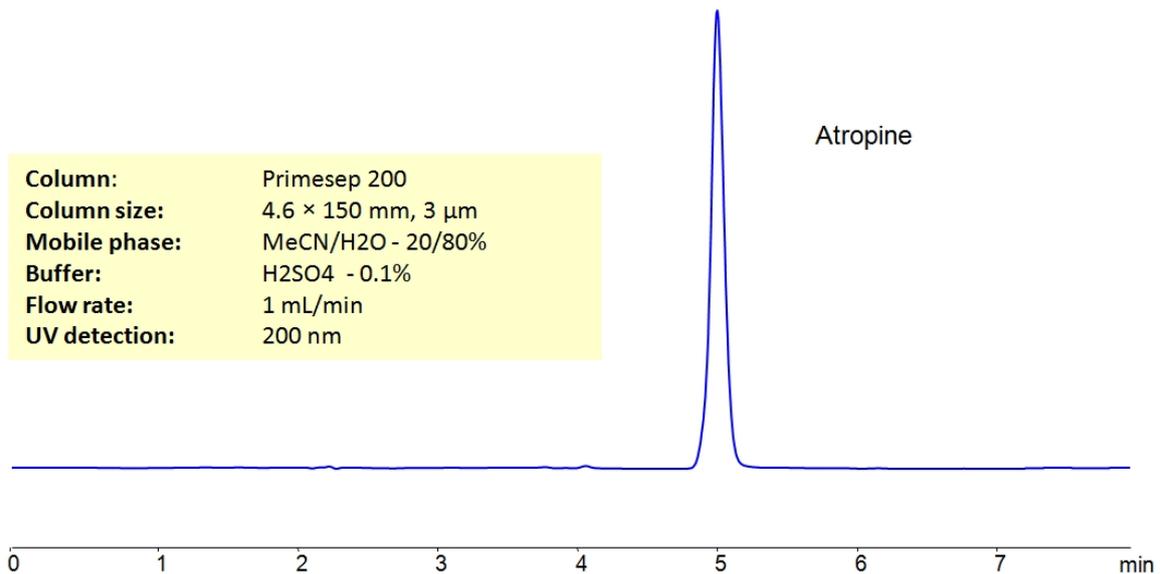


## HPLC Determination of Atropine on Primesep 200 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Atropine .

Atropine is a tropane alkaloid with the chemical formula C<sub>17</sub>H<sub>23</sub>NO<sub>3</sub> . It is an anticholinergic medication that is used to treat nerve agent, pesticide poisoning, slow heartrate, and is also used to decrease saliva production. Typically, it is administered through injection.

Atropine can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a [buffer] buffer. Detection is performed using UV.

### Method Parameters

|                     |   |
|---------------------|---|
| <b>Column</b>       | Primesep 200, 4.6 x 150 mm, 3 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> – 0.1%               |
| <b>Flow Rate</b>    | 1.0 mL/min  |
| <b>Detection</b>    | UV, 200 nm  |

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