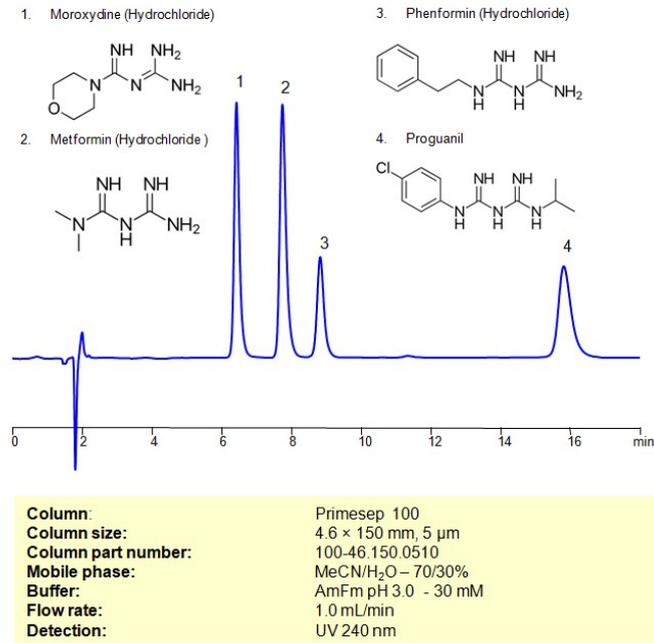


## HPLC Method for Separation Biguanides such as Moroxydine, Metformin, Proguanil and Phenformin on Primesep 100 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Biguanides, including Moroxydine, Metformin, Proguanil, and Phenformin, are a group of organic compounds that share a common structural feature, namely the presence of two guanidine groups.

These biguanides exhibit various pharmacological activities, and while some are primarily used for antidiabetic purposes, others have applications in antiviral or antimalarial treatments. It's important to note that the safety and efficacy of these drugs depend on proper medical supervision and adherence to prescribed dosages.

Biguanides such as Moroxydine, Metformin, Proguanil and Phenformin be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and ammonium formate as a buffer. This method allows for detection using UV at 240 nm

## 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 70/30%                        |
| <b>Buffer</b>           | AmFm pH 3.0 – 30 mM                                 |
| <b>Flow Rate</b>        | 1.0 mL/min  |
| <b>Detection</b>        | UV 240 nm   |
| <b>Injection Volume</b> | 10 µl   |

Quelle: <https://sielc.com/hplc-method-for-analysis-biguanides>