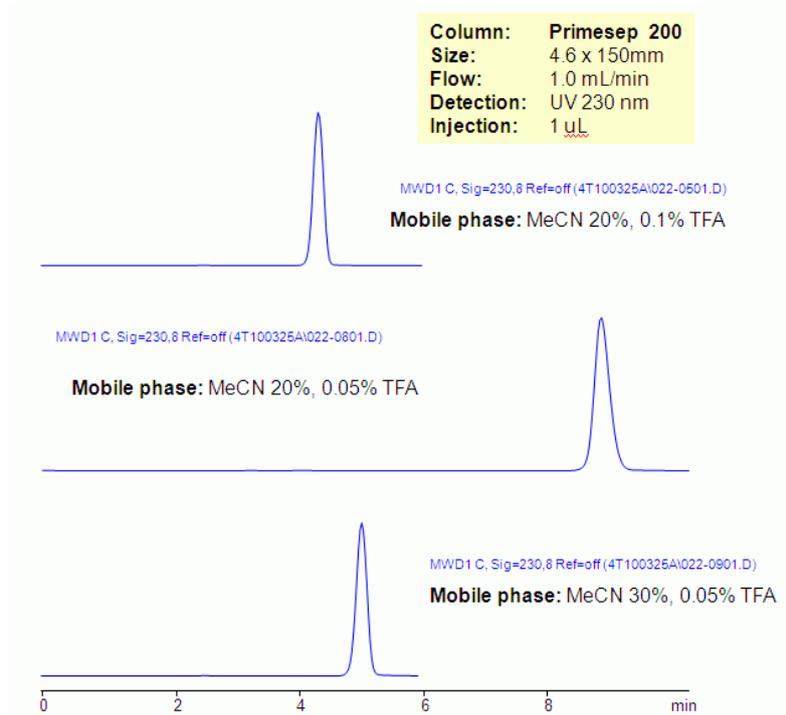


## HPLC Analysis of Metformin



Metformin is a biguanide-based anti-diabetic drug. It is a very polar organic compound that has no retention on reversed-phase column unless an ion-pairing reagent is employed. Metformin was retained on a Primesep 200 column based on cation-exchange mechanism. Method can be used for analysis of metformin and related substances in pharmaceutical formulations. Due to low UV activity a more UV-transparent mobile phase is required. Metformin can be also monitored by ELSD and LC/MS with corresponding mobile phase (TFA, ammonium formate or ammonium acetate).

### Method Parameters

<b>Column</b>	Primesep 200, 4.6x150 mm, 5 $\mu$ m, 100 Å
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O
<b>Buffer</b>	TFA
<b>Flow Rate</b>	0.5 mL/min
<b>Detection</b>	UV, 230 nm

Quelle: <https://sielc.com/Application-HPLC-Analysis-of-Metformin>