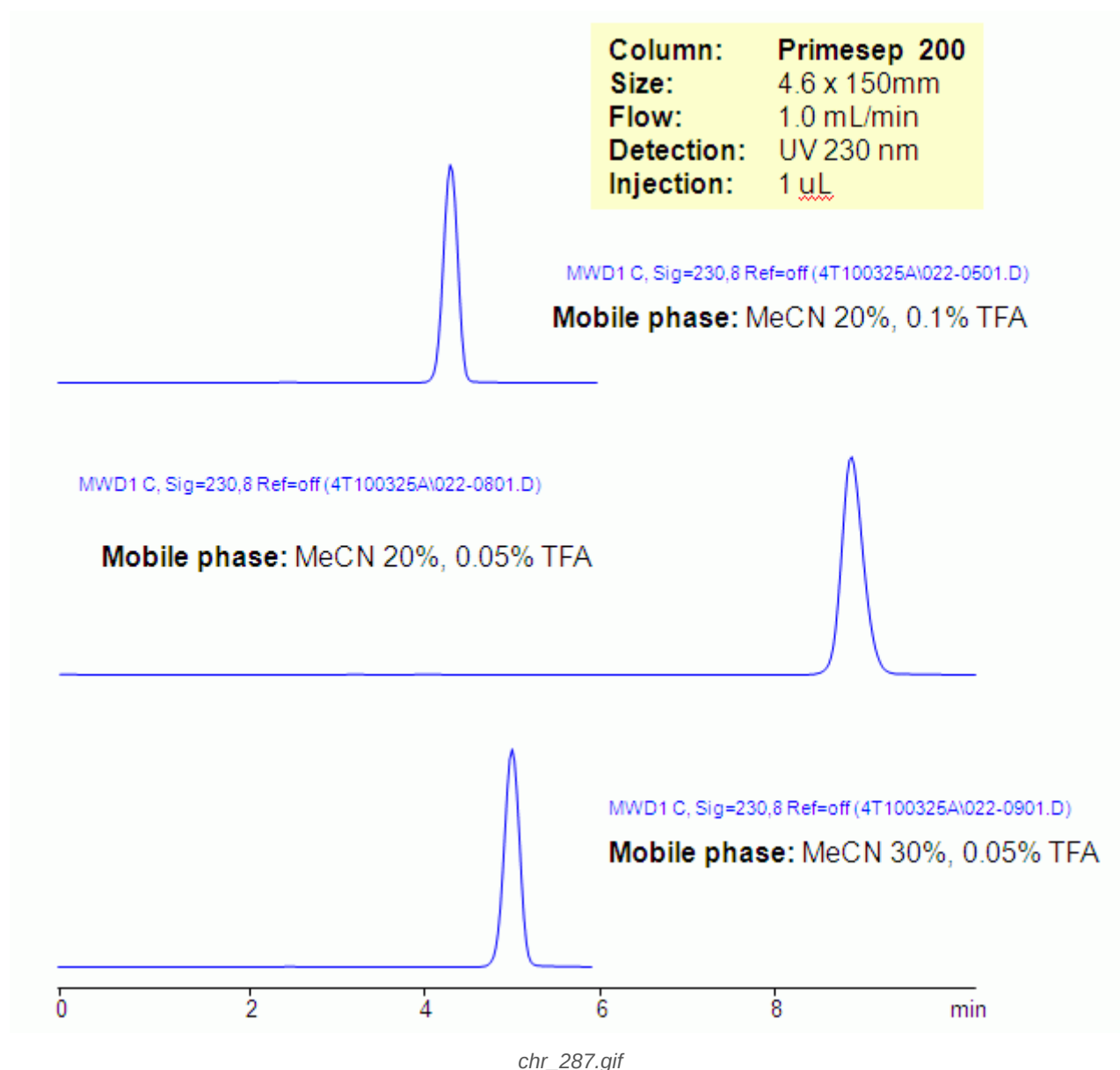


HPLC Analysis of Metformin

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

Chromatogram



Description

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

Mobile Phase	MeCN/H ₂ O
Buffer	TFA

Flow Rate	0.5 ml/min
Detection	UV, 230 nm
Class of Compounds	Drug, Anti-diabetic medication, Hydrophilic, Ionizable
Analyzing Compounds	Metformin

HPLC Column Used

Primesep 200, 4.6×150 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)