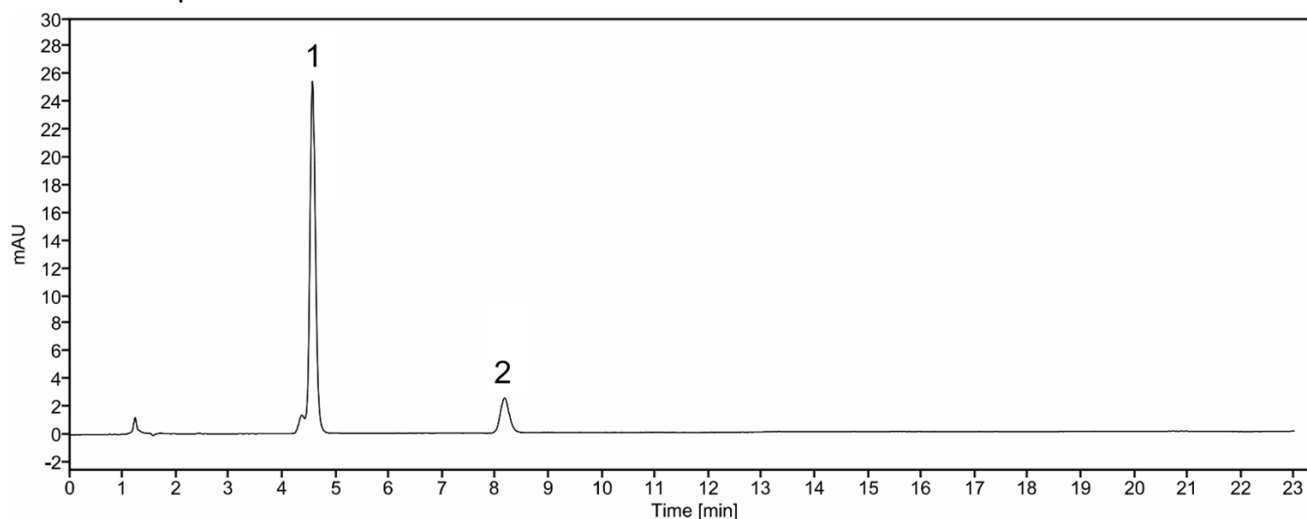




Metformin Oral Solution – BP 2024

These chromatograms are provided for information only as an aid to analysts and are intended as guidance for the interpretation and application of BP monographs.

Typical chromatogram for solution (4) from the Related Substances test for Metformin Oral Solution as published in BP 2024.

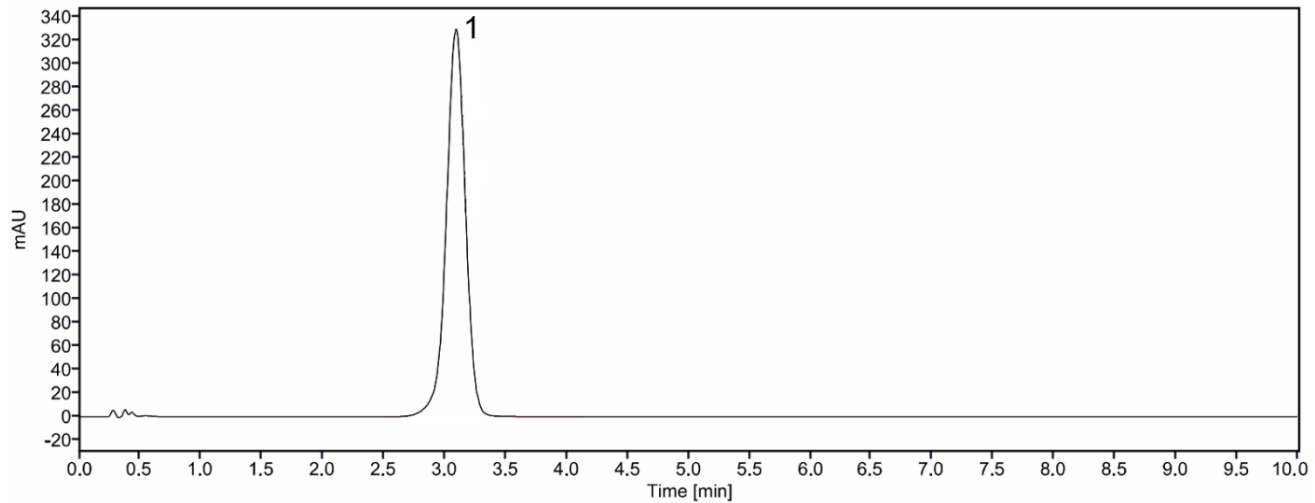


Peak ID: 1: Impurity D. 2: Metformin.

Column	Synergi RP Max-RP (150 mm x 4.6 mm, 4 µm)
Method Ref.	Related Substances for the Metformin Oral Solution monograph from BP 2024
Buffer	1.25 g/L sodium dodecyl sulfate, 10 mL/L triethylamine and 14.6 g/L orthophosphoric acid in water, the pH of which was adjusted to 3.15 with sodium hydroxide.
Mobile Phase	Methanol: buffer (42:58, v/v)
Diluent	Mobile phase
Flow rate	1.0 mL/min
Column Temp	35°C

Injection Volume	10 µL
Detection	218 nm

Typical chromatogram for solution (2) from the Assay test for Metformin Oral Solution as published in BP 2024.



Peak ID: 1: Metformin.

Column	Luna SCX (150 mm x 4.6 mm, 4 µm)
Method Ref.	Assay Test for the Metformin Oral Solution monograph from BP 2024
Buffer	0.05M potassium dihydrogen orthophosphate, adjusted to pH 3.5 with orthophosphoric acid
Mobile Phase	Acetonitrile: buffer (16:84, v/v)
Diluent (Solution B)	Acetonitrile: 0.1% v/v orthophosphoric acid (1:19, v/v)
Flow rate	2.0 mL/min
Column Temp	30°C
Injection Volume	20 µL
Detection	205 nm