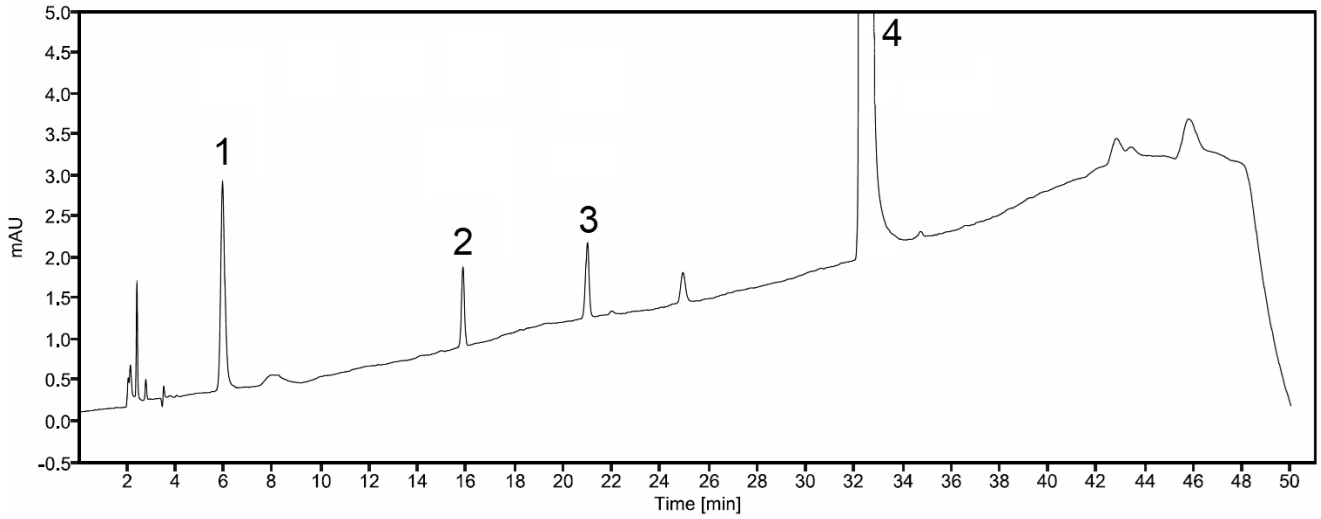
Doxazosin Tablets – BP 2025

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 (3) from the Related Substances test for Doxazosin Tablets as published in BP 2025.

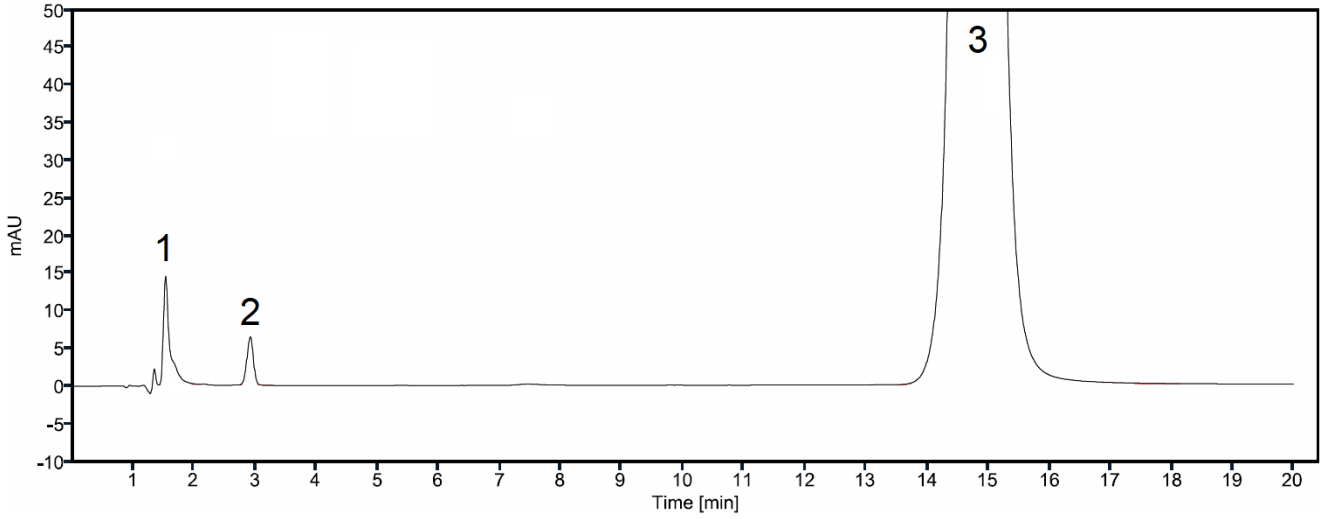


Peak ID: 1: Impurity G. 2: Impurity D. 3: Impurity F. 4: Doxazosin.

Column	Lichrospher RP-Select B C8 (250 mm x 4.0 mm, 5 µm)
Method Ref.	Related Substances for the Doxazosin Tablets monograph from BP 2025
Mobile Phase A	1.5 g/L of phosphoric acid in water
Mobile Phase B	1.5 g/L of phosphoric acid in acetonitrile
Diluent	Mobile phase A: Mobile phase B (9:1, v/v)
Flow rate	Refer to gradient table below
Column Temp	35°C
Injection Volume	10 µL

Detection	210 nm			
Gradient				
Time (minutes)	**Mobile phase A (% v/v)**	**Mobile phase B (% v/v)**	**Flow rate (mL/min)**	**Comment**
0 – 5	90	10	0.8	isocratic
5 – 40	90 → 50	10 → 50	0.8	linear gradient
40 – 45	50	50	0.8	isocratic
45 – 46	50 → 90	50 → 10	0.8	linear gradient
46 – 50	90	10	0.8	re-equilibration

Typical chromatogram for solution (3) from the Assay test for Doxazosin Tablets as published in BP 2025.



Peak ID: 1: Impurities D & G. 2: Impurity F. 3: Doxazosin.

Column	Nucleosil C18 (125 mm x 4.0 mm, 5 µm)
Method Ref.	Assay for the Doxazosin Tablets monograph from BP 2025
Buffer	0.05M potassium dihydrogen orthophosphate, adjusted to pH 6.0 with potassium hydroxide
Mobile Phase	Acetonitrile: Buffer (30:70, v/v)
Diluent	A 1.5 g/L solution of orthophosphoric acid in a mixture of 9 volumes of water and 1 volume of acetonitrile
Flow rate	1.0 mL/min
Column Temp	40°C
Injection Volume	25 µL
Detection	246 nm