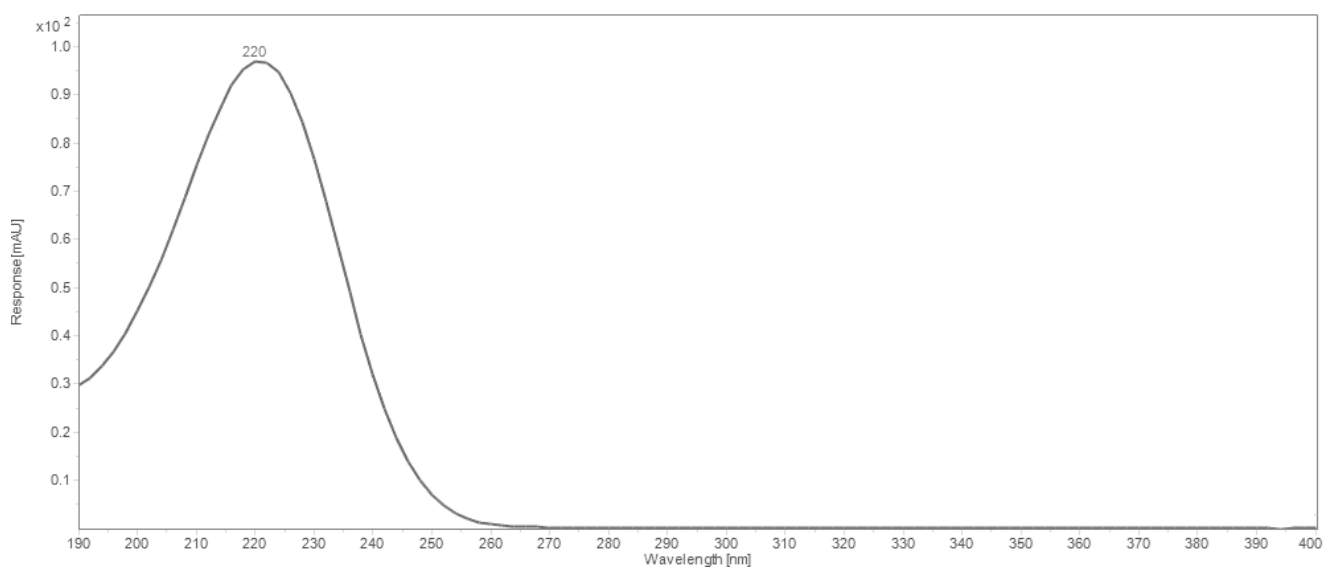




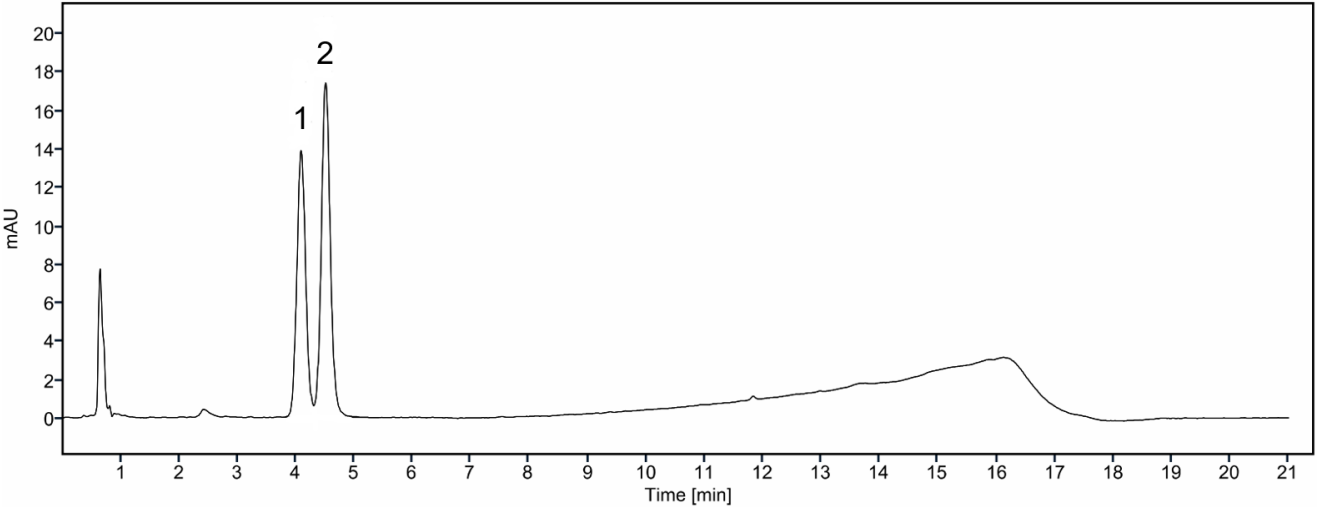
Digoxin Injection – BP 2024

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 spectrum for the Identification test for Digoxin Injection as published in BP 2024.



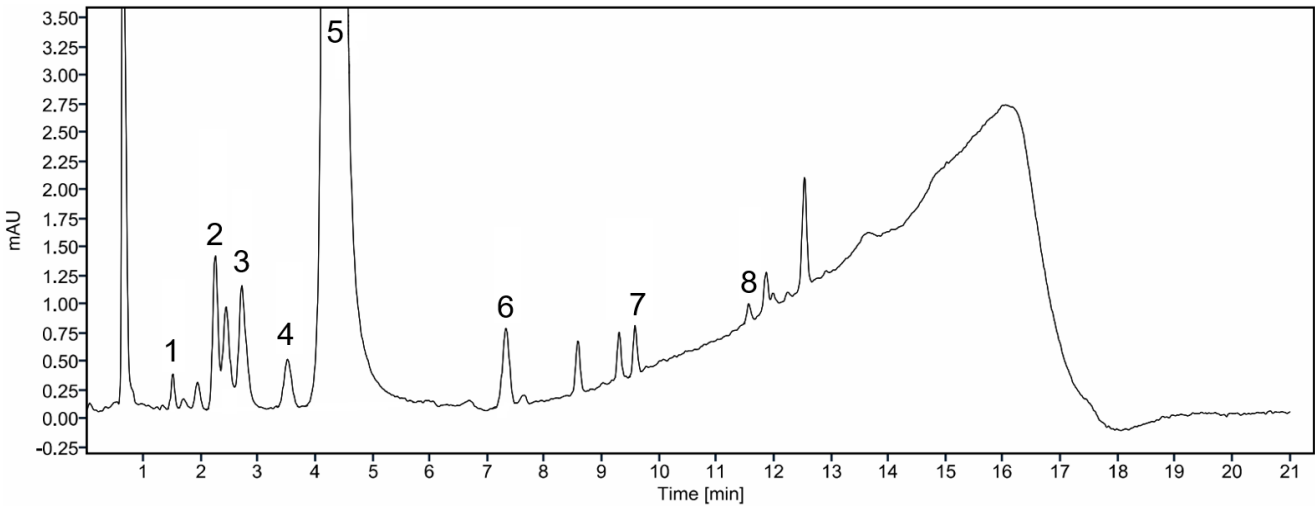
Typical chromatogram for solution (3) from the Related Substances and Assay tests for Digoxin Injection as published in BP 2024.



Peak ID: 1: Impurity H. 2: Digoxin.

Column	Symmetry C18 (150 mm x 3.9 mm, 5 µm)		
Method Ref.	Related Substances for the Digoxin Injection monograph from BP 2024		
Mobile Phase A	Acetonitrile: water (10:90, v/v)		
Mobile Phase B	Water: acetonitrile (10:90, v/v)		
Diluent	Mobile phase B: Mobile phase A (22:78, v/v)		
Flow rate	1.5 mL/min		
Column Temp	25°C		
Injection Volume	50 µL		
Detection	220 nm		
Gradient			
Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)	Comment
0 – 5	78	22	isocratic
5 – 15	78 → 30	22 → 70	linear gradient
15 – 16	30 → 78	70 → 22	linear gradient
16 – 21	78	22	re-equilibration

Typical chromatogram for solution (4) from the Related Substances test for Digoxin Injection as published in BP 2024.



Peak ID: 1: Impurity C. 2: Impurity E. 3: Impurity F. 4: Impurity G. 5: Digoxin. 6: Impurity K. 7: Impurity B. 8: Impurity A.

Column	Symmetry C18 (150 mm x 3.9 mm, 5 µm)		
Method Ref.	Related Substances for the Digoxin Injection monograph from BP 2024		
Mobile Phase A	Acetonitrile: water (10:90, v/v)		
Mobile Phase B	Water: acetonitrile (10:90, v/v)		
Diluent	Mobile phase B: Mobile phase A (22:78, v/v)		
Flow rate	1.5 mL/min		
Column Temp	25°C		
Injection Volume	50 µL		
Detection	220 nm		
Gradient			
Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)	Comment
0 – 5	78	22	isocratic
5 – 15	78 → 30	22 → 70	linear gradient
15 – 16	30 → 78	70 → 22	linear gradient
16 – 21	78	22	re-equilibration