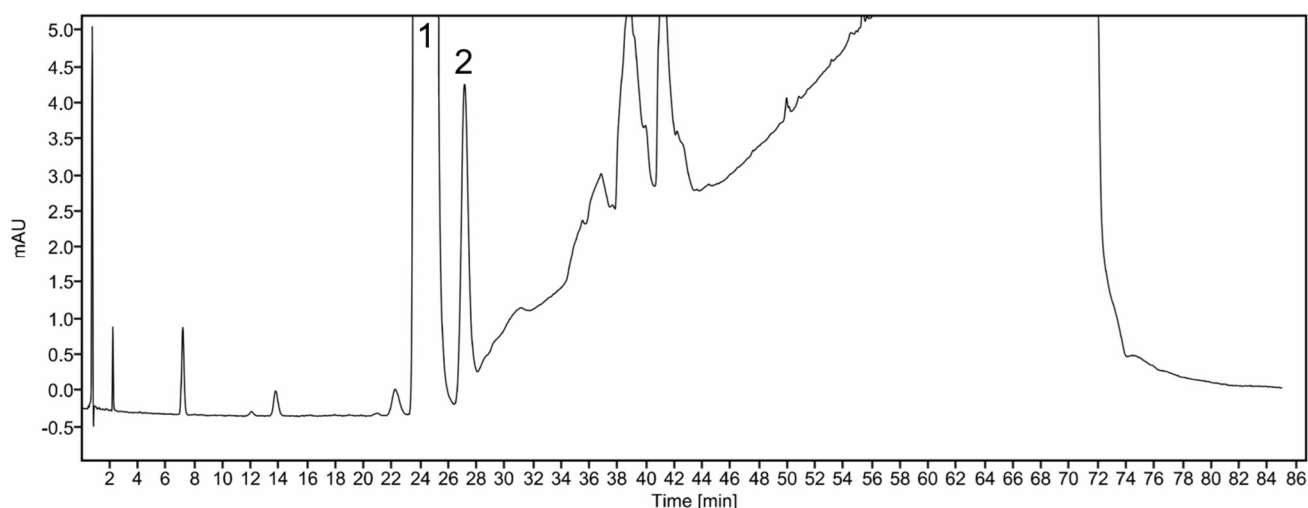




Ibuprofen Injection – BP 2026

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 Ibuprofen Injection as published in BP 2026.

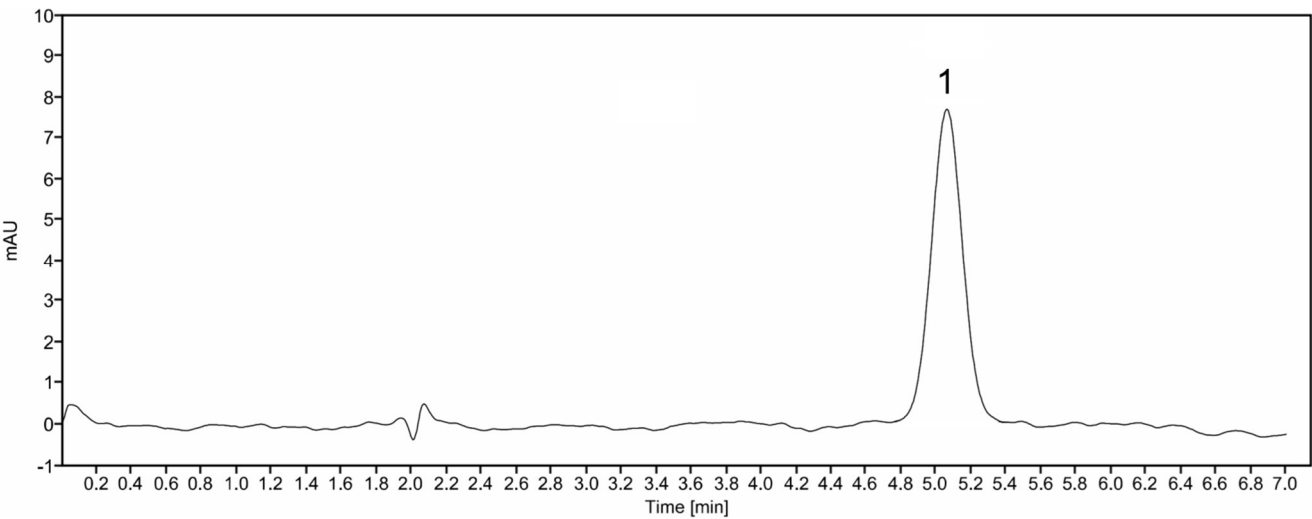


Peak ID: 1: Ibuprofen. 2: Impurity B.

Column	XTerra MS C18 (150 mm x 4.6 mm, 5 µm)
Method Ref.	Related Substances for the Ibuprofen Injection monograph from BP 2026
Mobile Phase A	0.5 volumes of orthophosphoric acid, 340 volumes of acetonitrile and sufficient water to produce 1000 volumes
Mobile Phase B	0.5 volumes of orthophosphoric acid, 100 volumes of water and sufficient acetonitrile to produce 1000 volumes
Diluent	Acetonitrile: mobile phase A (1:5, v/v)
Flow rate	2.0 mL/min
Column Temp	Ambient

Injection Volume	20 μL		
Detection	214 nm		
Gradient			
Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)	Comment
0 – 25	100	0	isocratic
25 – 55	100 → 0	0 → 100	linear gradient
55 – 70	0	100	isocratic
70 – 71	0 → 100	100 → 0	linear gradient
71 – 85	100	0	re-equilibration

Typical chromatogram for solution (2) from the Assay test for Ibuprofen Injection as published in BP 2026.



Peak ID: 1: Ibuprofen.

Column	Nucleosil C18 (250 mm x 4.6 mm, 10 µm)
Method Ref.	Assay for the Ibuprofen Injection monograph from BP 2026
Mobile Phase	Orthophosphoric acid: water: methanol (3:247:750, v/v/v)
Diluent	Mobile phase
Flow rate	1.5 mL/min
Column Temp	Ambient
Injection Volume	20 µL
Detection	264 nm