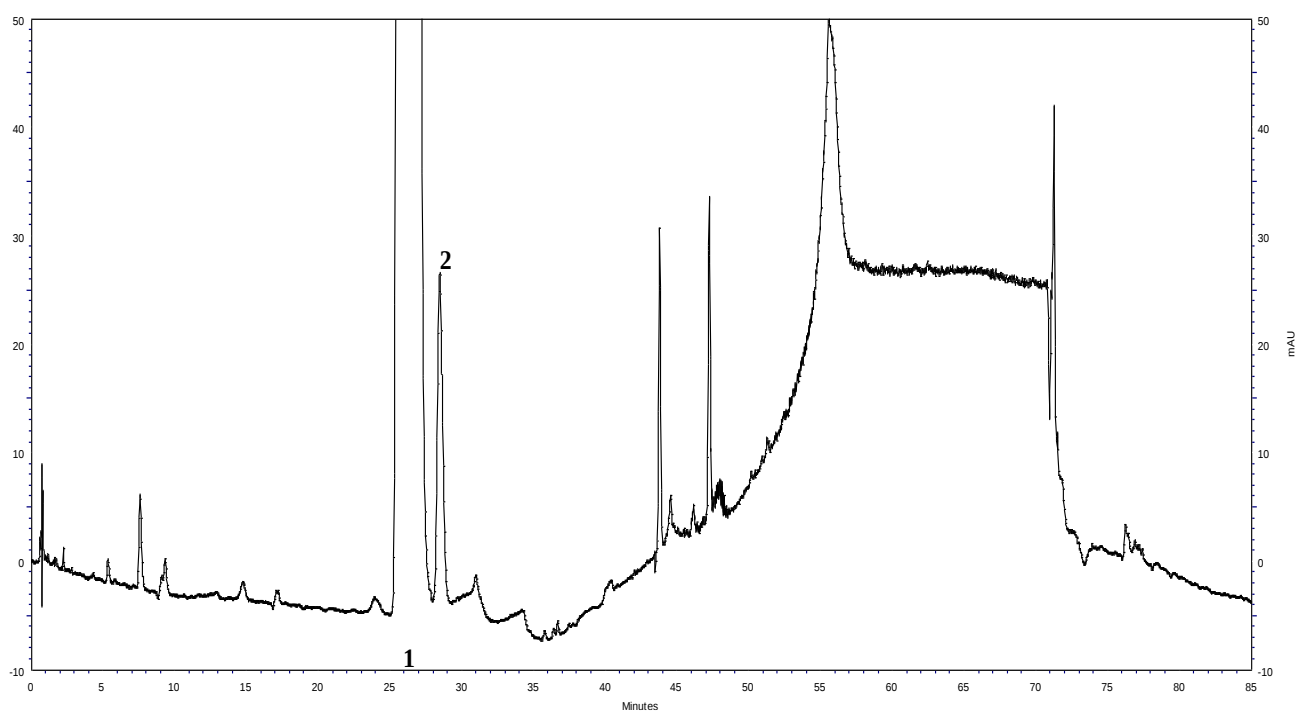




Ibuprofen Effervescent Granules – BP 2022

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.

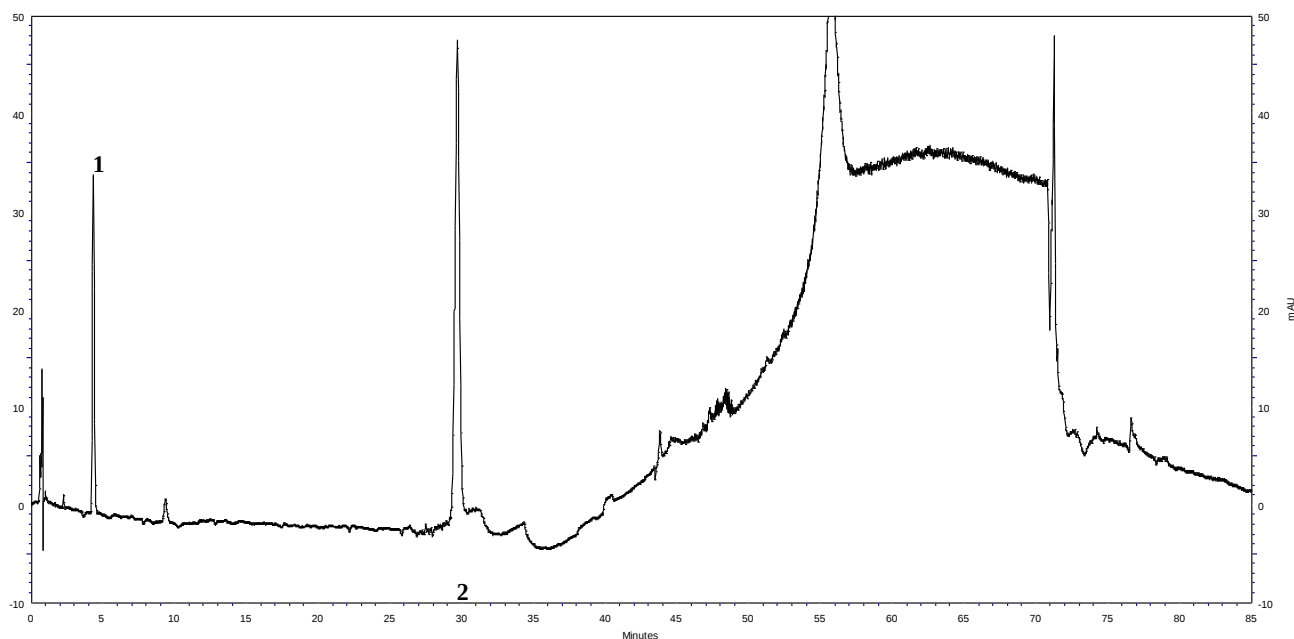
Typical Chromatogram for solution (3) in the Related Substances test for Ibuprofen Effervescent Granules as published in BP 2022.



Peak ID: 1: Ibuprofen; 2: Impurity B



Typical Chromatogram for solution (4) in the Related Substances test for Ibuprofen Effervescent Granules as published in BP 2022.



Peak ID: 1: Impurity D; 2: Impurity E

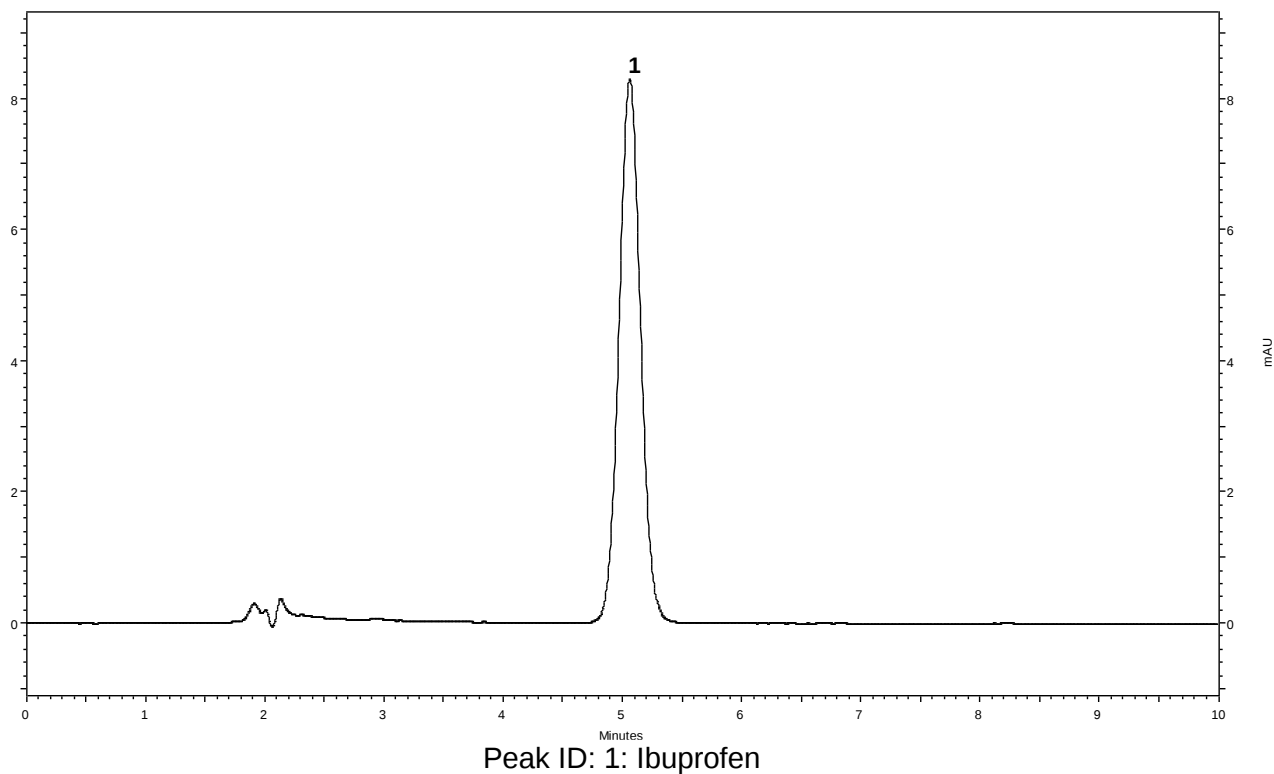
Column : Waters, XTerra MS C18 (150 mm x 4.6 mm, 5 µm)
Method Ref. : Related substances for the Ibuprofen Effervescent Granules monograph from BP 2022
Mobile Phase A : Orthophosphoric acid: acetonitrile: water (0.5: 340: 659.5, v/v/v)
Mobile Phase B : Acetonitrile
Gradient :

Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)
0 – 25	100	0
25 – 55	100 → 15	0 → 85
55 – 70	15	85
70 – 71	15 → 100	85 → 0
71 - 85	100	0

Diluent : Acetonitrile: mobile phase A (20:80, v/v)
Flow rate : 2.0 mL/min
Column Temp : 25 °C
Injection Volume : 20 µL
Detection : 214 nm



Typical Chromatogram for solution (2) in the Assay test for Ibuprofen Effervescent Granules as published in BP 2022.



Column	: Phenomenex, Nucleosil C18, (250mm x 4.6 mm, 10 µm)
Method Ref.	: Assay for the Ibuprofen Effervescent Granules monograph from BP 2022
Mobile Phase A	: Orthophosphoric acid: water: methanol (3: 247: 750, v/v/v)
Diluent	: 0.1 % w/v formic acid: methanol (35: 65, v/v)
Flow rate	: 1.5 mL/min
Column Temp	: 25 °C
Injection Volume	: 20 µL
Detection	: 264 nm