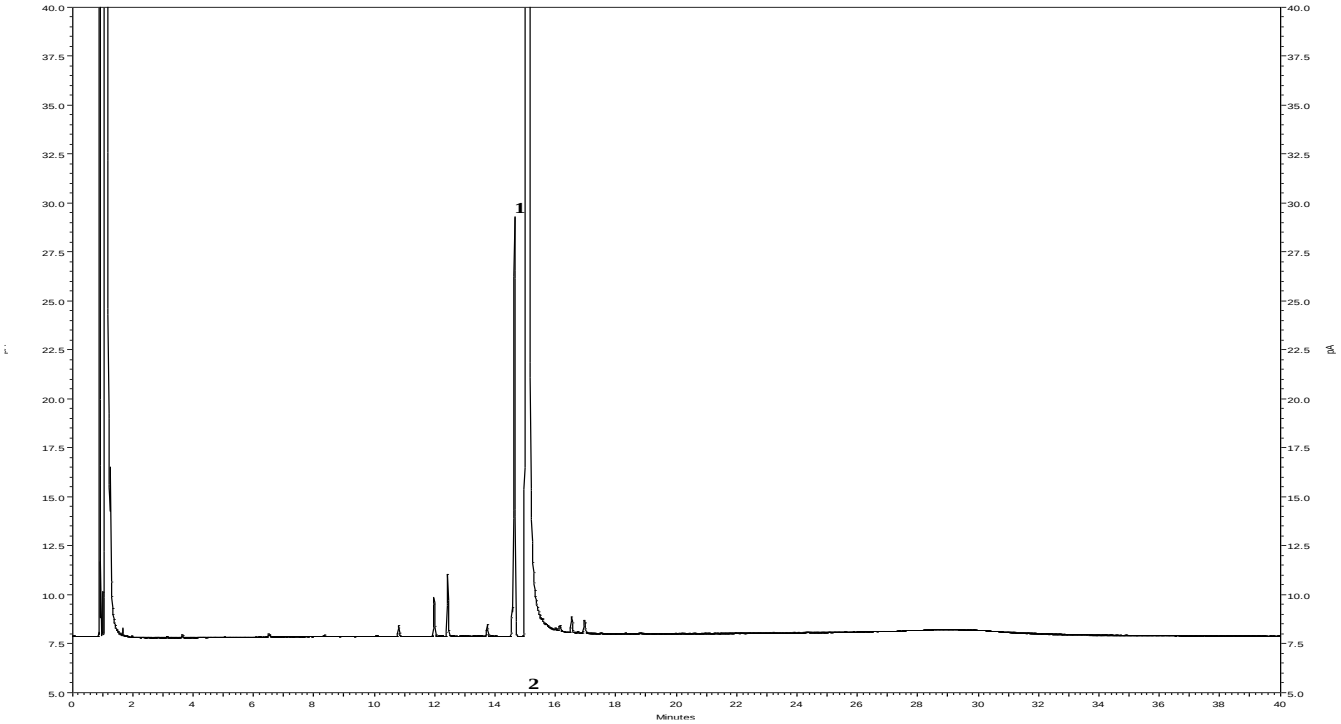
Sodium Valproate Prolonged-release Tablets – BP 2022

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 (4) in the Related Substances test for Sodium Valproate Prolonged-release Tablets as published in BP 2022.



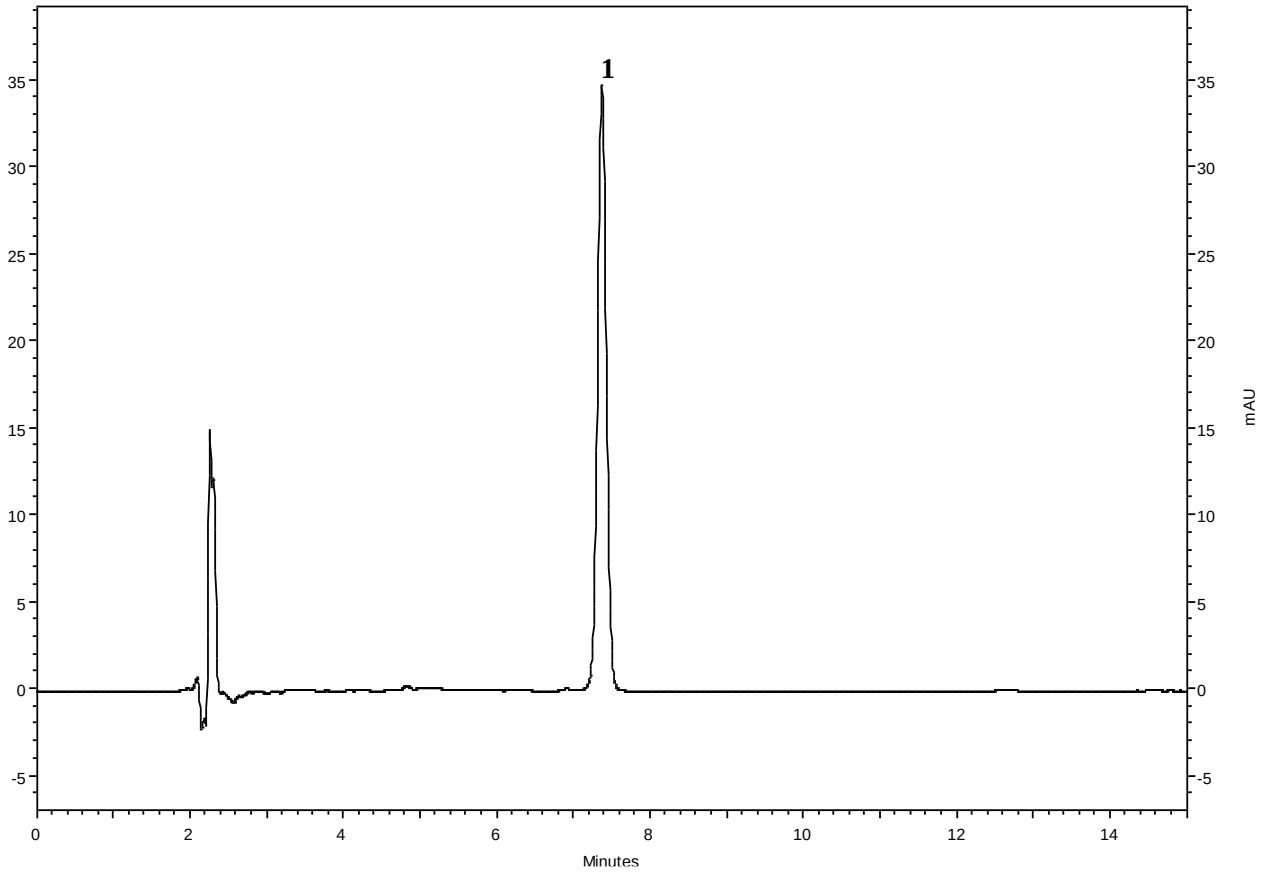
Peak ID: 1: Impurity K; 2: Valproic acid

Column	:	Agilent, DB-FFAP (30 m x 0.53 mm, 0.5 µm)
Method Ref.	:	Related substances for the Sodium Valproate Prolonged-release Tablets monograph from BP 2022
Carrier gas	:	Helium
Split ratio	:	10:1
Detector	:	FID
Flow rate	:	8.0 mL/min
Inlet Temp	:	220 °C
Injection Volume	:	1 µL
Detection Temp	:	220 °C
Diluent	:	Dichloromethane

Oven program:

Time (minutes)	Temperature (°C)
0 - 5	80
5 - 15	80 → 150
15 - 28.3	150 → 190
28.3 - 30	190
30 - 35	190 → 250
35 - 45	250

Typical chromatogram for solution (2) in the Assay test for Sodium Valproate Prolonged-release Tablets as published in BP 2022.



Peak ID: 1: Sodium Valproate

Column	:	Thermo Hypersil BDS C18 (250 mm x 4.6 mm, 5.0 µm)
Method Ref.	:	Assay for the Sodium Valproate Prolonged-release Tablets monograph from BP 2022
Mobile Phase	:	Acetonitrile: buffer (50:50, v/v)
Buffer	:	0.01 M sodium dihydrogen orthophosphate dihydrate adjusted to pH 2.3 with orthophosphoric acid.
Diluent	:	Solution A (0.05 M potassium phosphate buffer solution pH 6.8).
Flow rate	:	1.0 mL/min
Column Temp	:	25 °C
Injection Volume	:	20 µL
Detection	:	210 nm