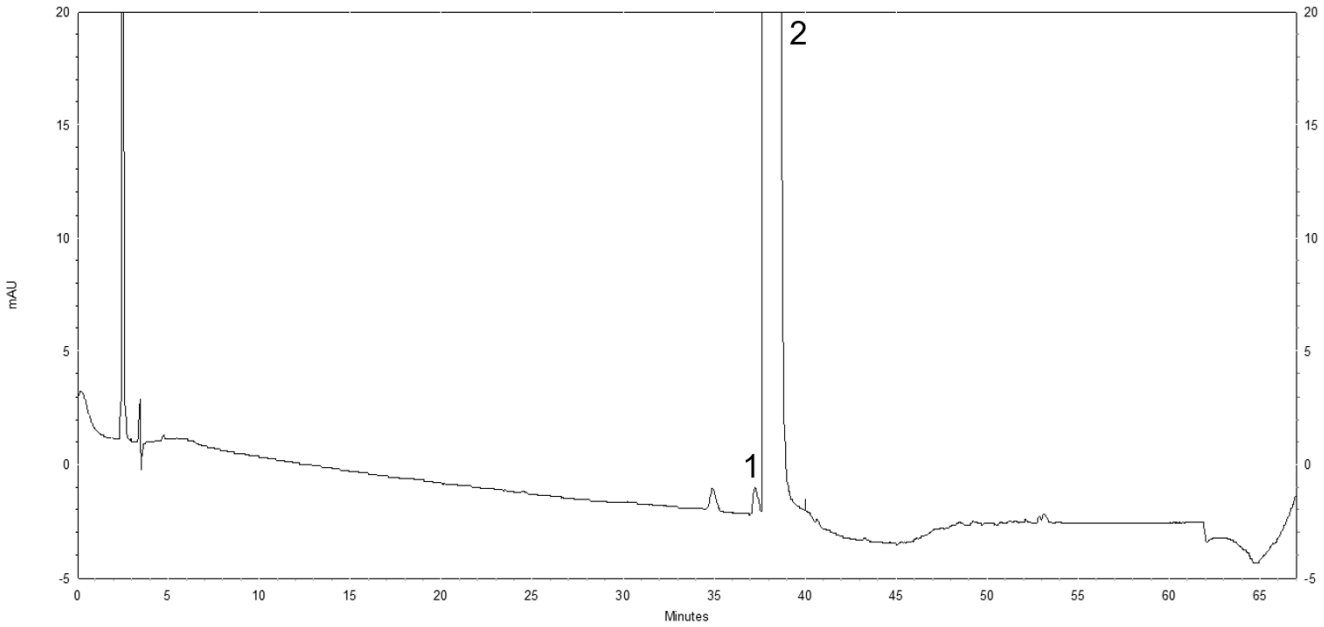
Escitalopram Tablets – BP 2024

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 chromatogram for solution (3) from the Related Substances test for Escitalopram Tablets as published in BP 2024.



Peak ID: 1: Impurity D. 2: Escitalopram.

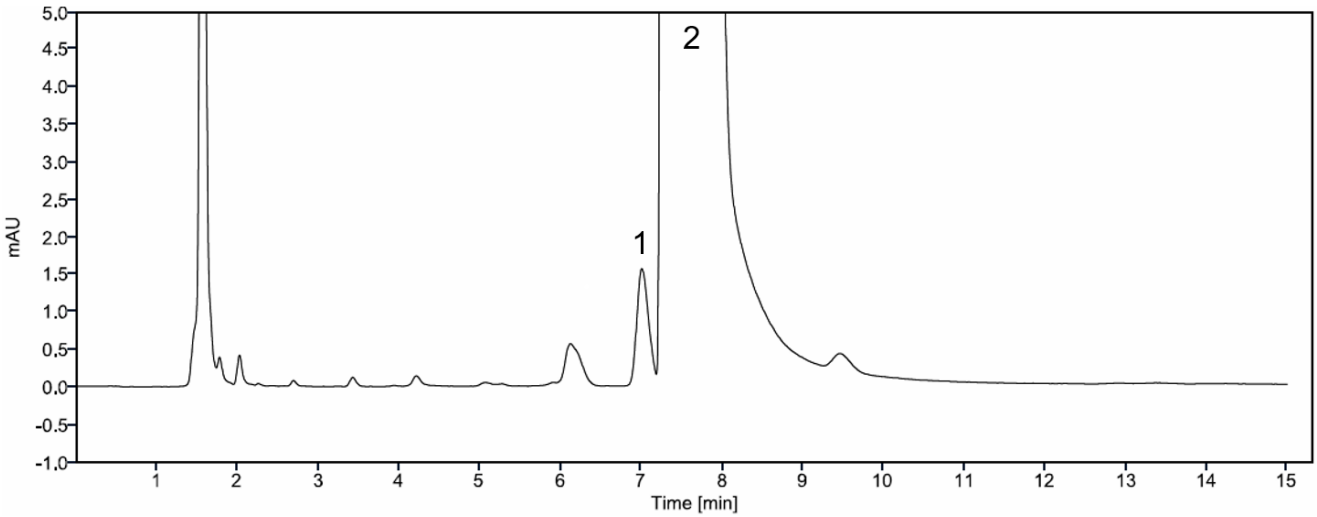
Column	Luna C18 (2) (250 mm x 4.6 mm, 5 µm)
Method Ref.	Related Substances for the Escitalopram Tablets monograph from BP 2024
Buffer (Solution A)	0.34% w/v potassium dihydrogen phosphate solution adjusted to pH 3.0 with orthophosphoric acid
Mobile Phase A	Acetonitrile: solution A (10:90, v/v)
Mobile Phase B	Solution A: acetonitrile (35:65, v/v)
Diluent	Mobile phase A

Flow rate	Refer to gradient table below
Column Temp	45°C
Injection Volume	20 µL
Detection	237 nm

Gradient

Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)	Flow rate (mL/min)	Comment
0 – 2	95	5	1.0	isocratic
2 – 37	95 → 65	5 → 35	1.0	linear gradient
37 – 47	65 → 0	35 → 100	1.0	linear gradient
47 – 62	0	100	2.0	isocratic
62 - 64	0 → 95	100 → 5	1.0	linear gradient
64 - 67	95	5	1.0	re-equilibration

Typical chromatogram for solution (3) from the Assay test for Escitalopram Tablets as published in BP 2024.



Peak ID: 1: Impurity D. 2: Escitalopram.

Column	Luna C18 (2) (250 mm x 4.6 mm, 5 µm)
Method Ref.	Assay for the Escitalopram Tablets monograph from BP 2024
Buffer (Solution A)	0.34% w/v potassium dihydrogen phosphate solution adjusted to pH 3.0 with orthophosphoric acid
Mobile Phase	Acetonitrile: solution A (30:70, v/v)
Diluent	Mobile phase
Flow rate	1.0 mL/min
Column Temp	45°C
Injection Volume	200 µL
Detection	237 nm