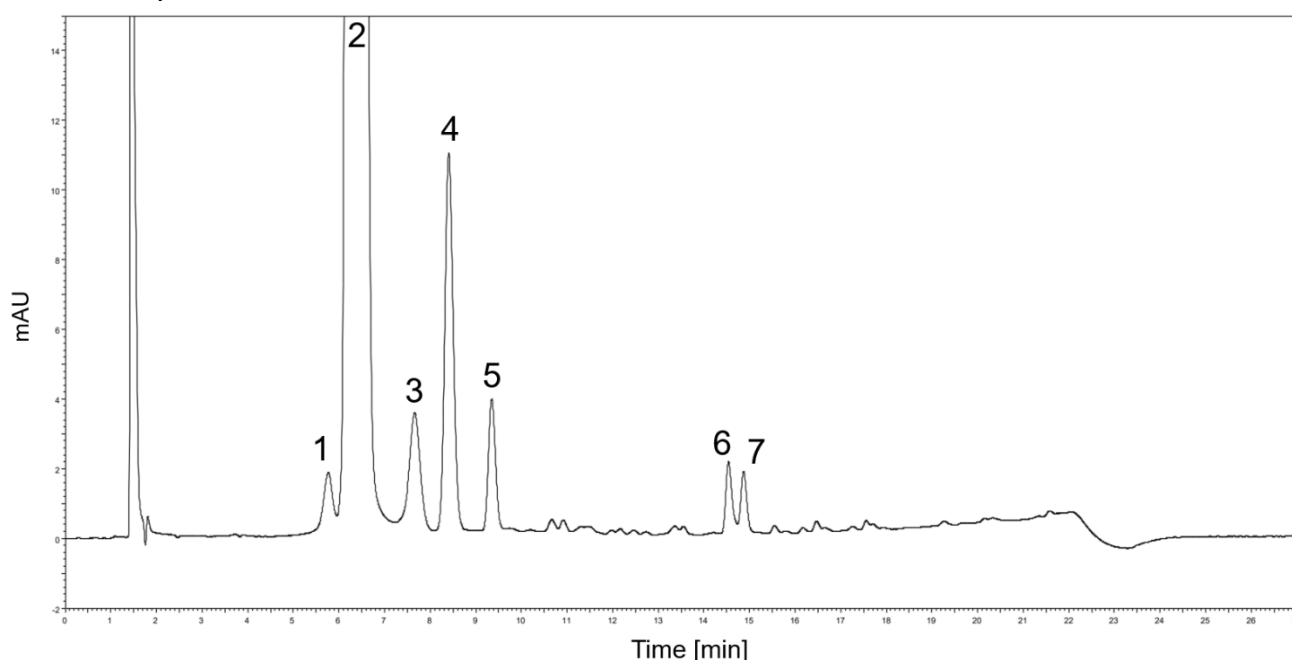




Oxytetracycline Tablets – BP 2026

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 Oxytetracycline Tablets as published in BP 2026.

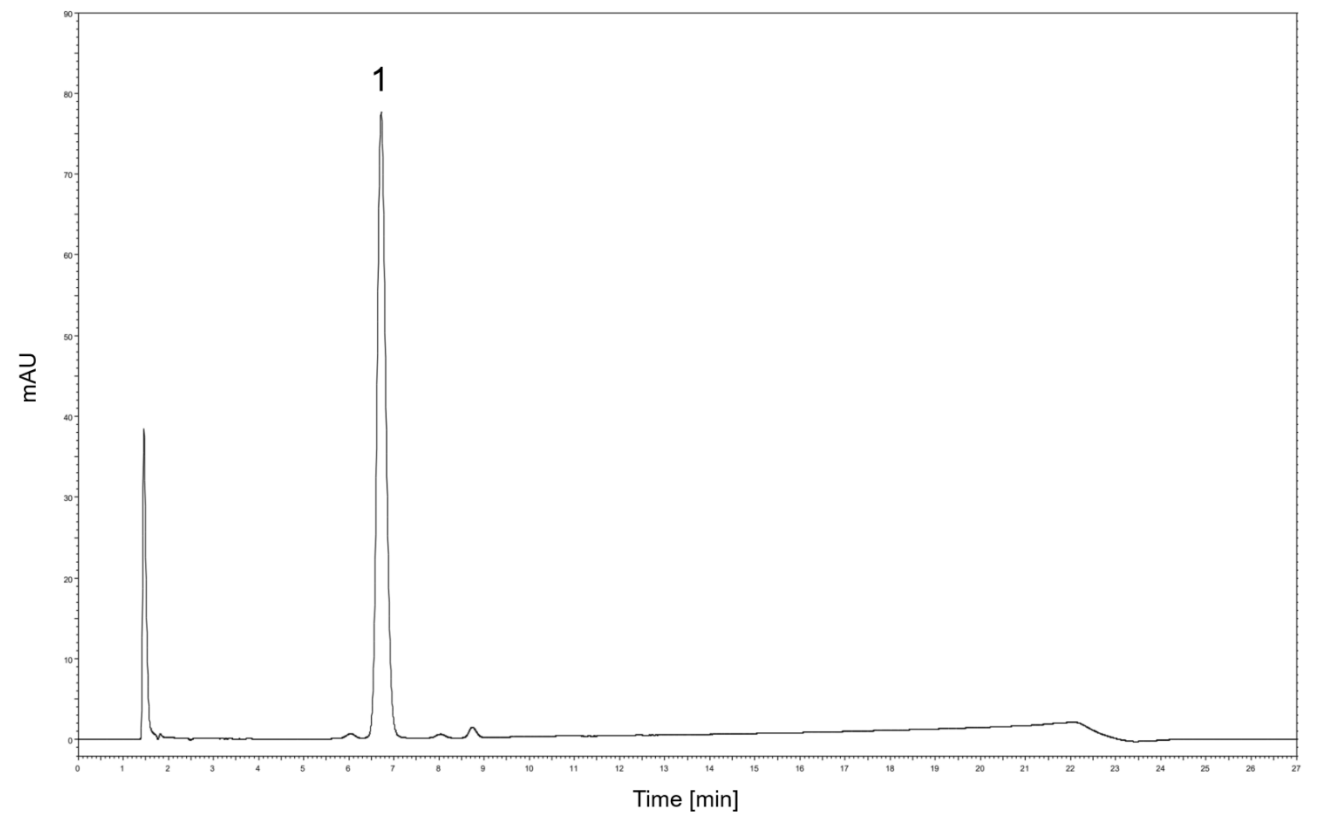


Peak ID: 1: Impurity A + Impurity G. 2: Oxytetracycline. 3: Impurity B. 4: Impurity C. 5: Impurity D. 6: Impurity E. 7: Impurity F.

Column	Inertsil C8 (150 mm x 4.6 mm, 5 µm)
Method Ref.	Related Substances for the Oxytetracycline Tablets monograph from BP 2026
Mobile Phase A	0.05% trifluoroacetic acid
Mobile Phase B	Tetrahydrofuran: methanol: acetonitrile (5:15:80, v/v/v)
Diluent	Acetonitrile: 0.01M oxalic acid (20:80, v/v)
Flow rate	1.3 mL/min

Column Temp	50°C			
Injection Volume	10 μL			
Detection	254 nm			
Gradient				
Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)	Flow rate (mL/min)	Comment
0 – 5	90	10	1.3	isocratic
5 – 20	90 → 65	10 → 35	1.3	linear gradient
20 – 21	65 → 90	35 → 10	1.3	linear gradient
21 – 27	90	10	1.3	re-equilibration

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



Peak ID: 1: Oxytetracycline.

Column	Inertsil C8 (150 mm x 4.6 mm, 5 µm)			
Method Ref.	Assay for the Oxytetracycline Tablets monograph from BP 2026			
Mobile Phase A	0.05% trifluoroacetic acid			
Mobile Phase B	Tetrahydrofuran: methanol: acetonitrile (5:15:80, v/v/v)			
Diluent	Acetonitrile: 0.01M oxalic acid (20:80, v/v)			
Flow rate	1.3 mL/min			
Column Temp	50°C			
Injection Volume	10 µL			
Detection	254 nm			
Gradient				
Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)	Flow rate (mL/min)	Comment

0 – 5	90	10	1.3	isocratic
5 – 20	90 → 65	10 → 35	1.3	linear gradient
20 – 21	65 → 90	35 → 10	1.3	linear gradient
21 – 27	90	10	1.3	re-equilibration