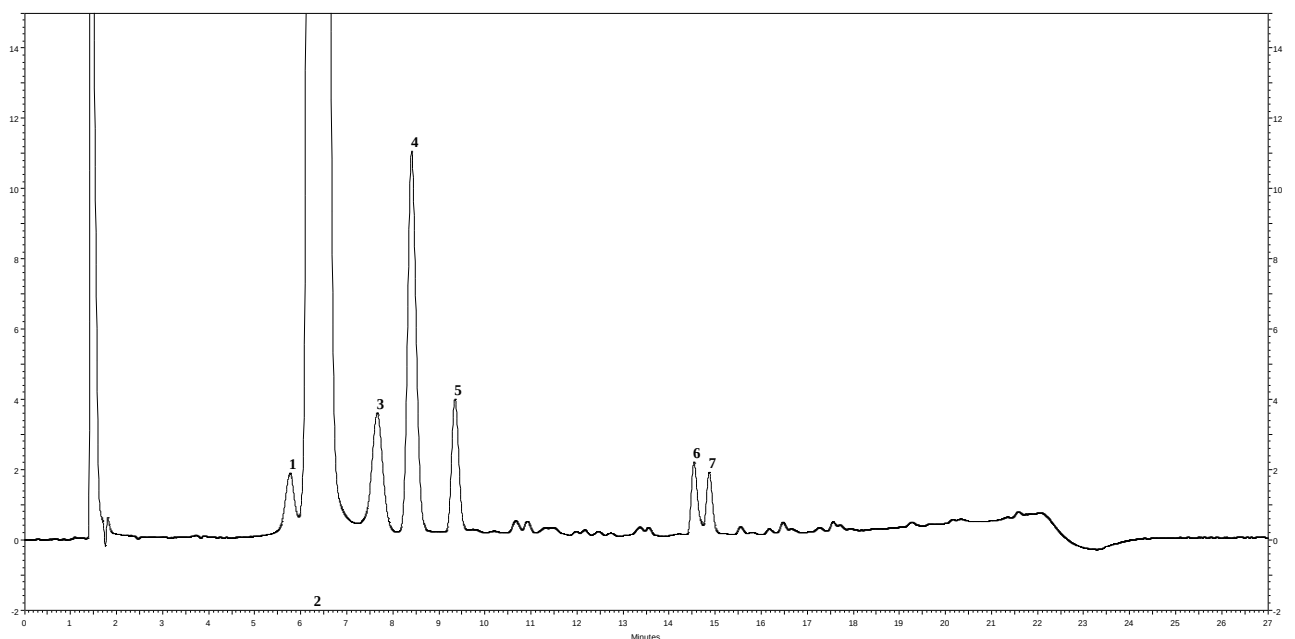




Oxytetracycline Tablets – BP 2022

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 (3) in the Related Substances test for Oxytetracycline Tablets as published in BP 2022.



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

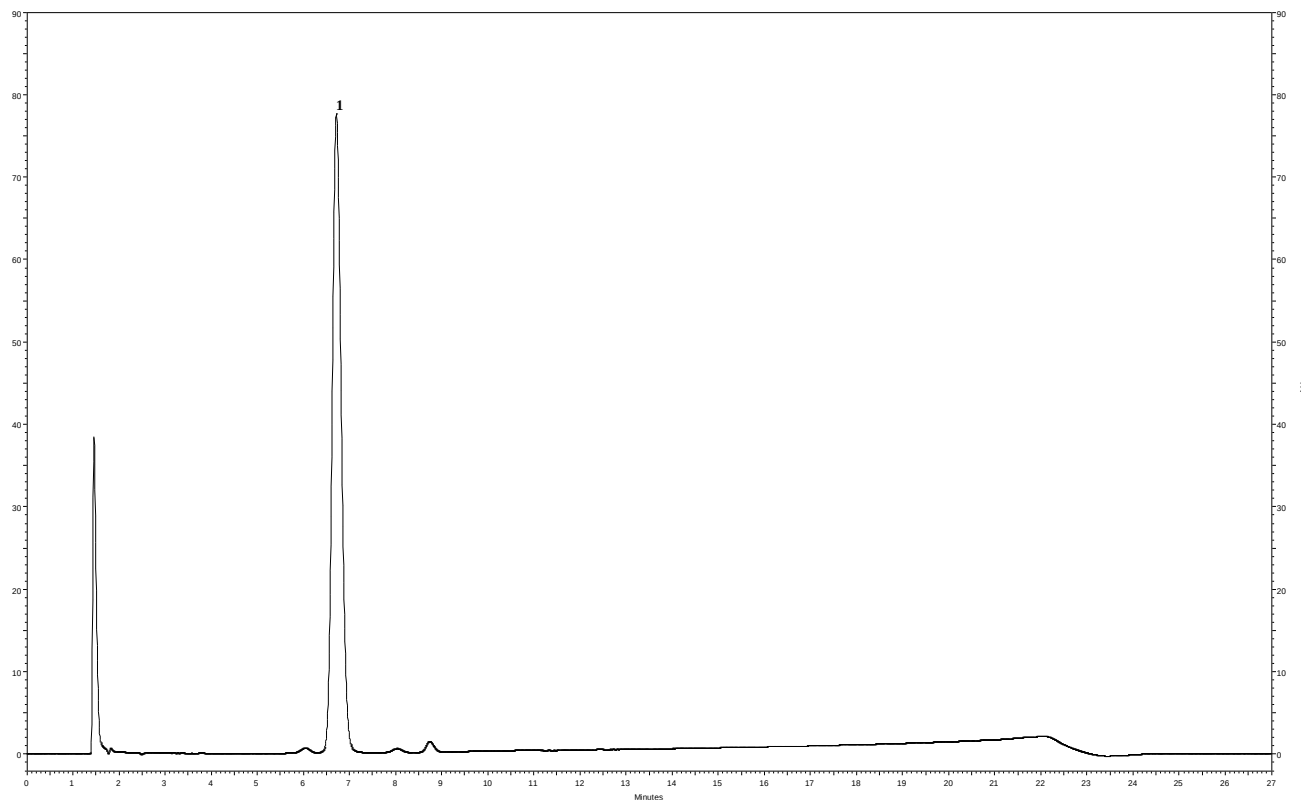
Column : GL Sciences Intersil C8 (150 mm x 4.6 mm, 5.0 μ m)
Method Ref. : Related substances for the Oxytetracycline Tablets monograph from BP 2022
Mobile Phase A : 0.05 % trifluoroacetic acid
Mobile Phase B : Tetrahydrofuran: methanol: acetonitrile (5: 15: 80, v/v/v)
Gradient :

Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)
0 - 5	90	10
5 - 20	90 $\rightarrow$ 65	10 $\rightarrow$ 35
20 - 21	65 $\rightarrow$ 90	35 $\rightarrow$ 10
21 - 27	90	10

Diluent : Acetonitrile: 0.01 M oxalic acid (20: 80, v/v)
Flow rate : 1.3 mL/min
Column Temp : 50 $^{\circ}$ C
Injection Volume : 10 μ L
Detection : 254 nm



Typical chromatogram for solution (2) in the Assay test for Oxytetracycline Tablets as published in BP 2022.



Peak ID: 1: Oxytetracycline

Column : GL Sciences Intersil C8 (150 mm x 4.6 mm, 5.0 μ m)
Method Ref. : Assay for the Oxytetracycline Tablets monograph from BP 2022
Mobile Phase A : 0.05 % trifluoroacetic acid
Mobile Phase B : Tetrahydrofuran: methanol: acetonitrile (5: 15: 80, v/v/v)
Gradient :

Time (minutes)	Mobile phase A (% v/v)	Mobile phase B (% v/v)
0 - 5	90	10
5 - 20	90 $\rightarrow$ 65	10 $\rightarrow$ 35
20 - 21	65 $\rightarrow$ 90	35 $\rightarrow$ 10
21 - 27	90	10

Diluent : Acetonitrile: 0.01 M oxalic acid (20: 80, v/v)
Flow rate : 1.3 mL/min
Column Temp : 50 $^{\circ}$ C
Injection Volume : 10 μ L
Detection : 254 nm