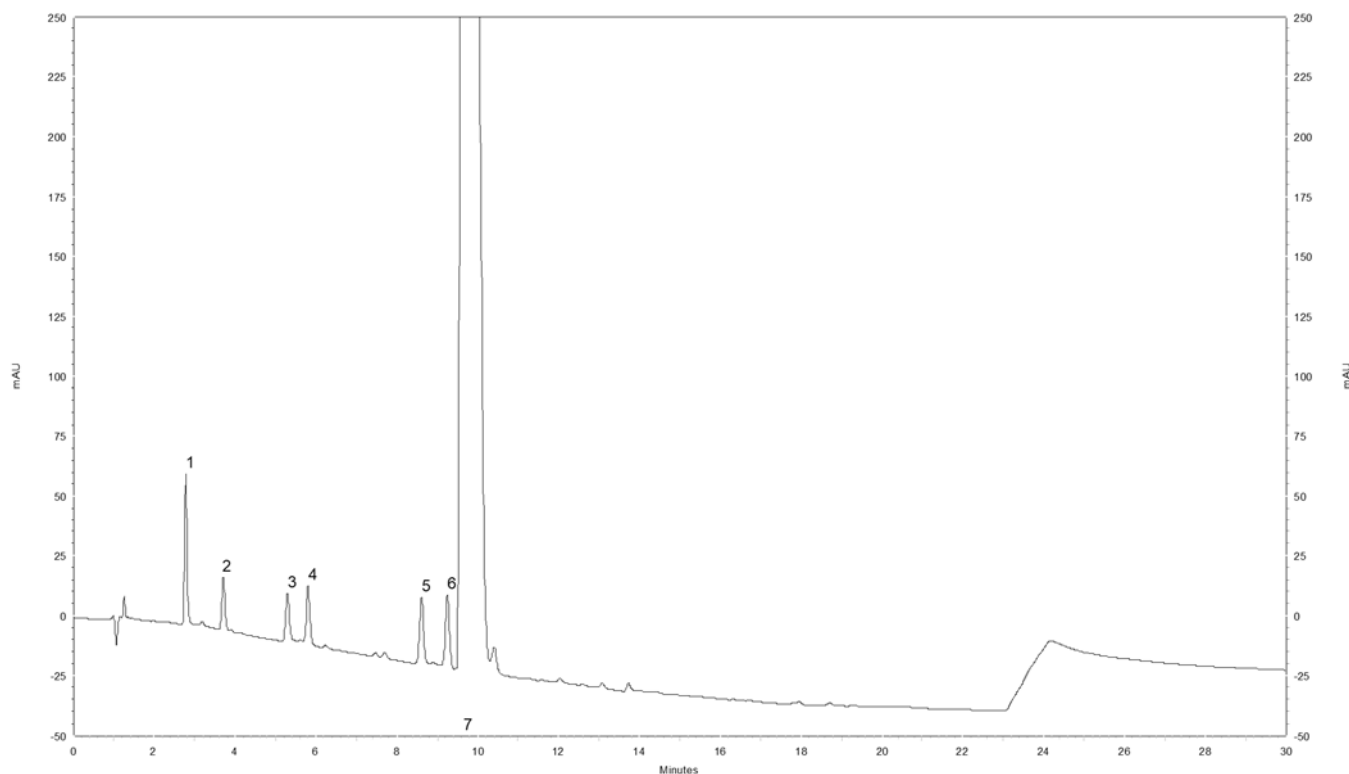




Phenoxymethylpenicillin Tablets BP 2020

This chromatogram is provided for information only as an aid to analysts and is intended as guidance for the interpretation and application of BP monographs.

Typical chromatogram for solution (3) in the Related Substances test for Phenoxymethylpenicillin Tablets as published in BP 2020.



Peak ID: 1: Impurity B; 2: Impurity D; 3: Impurity E1; 4: Impurity E2; 5: Impurity F1; 6: Impurity F2; 7: Phenoxymethylpenicillin

Column : YMC Pack Pro C18 (150 mm x 4.6 mm, 3 μ m)
Method Ref. : Related Substances for the Phenoxymethylpenicillin Tablets monograph from BP 2020
Buffer : 68 g/L potassium dihydrogen phosphate adjusted to pH 3.4 with phosphoric acid
Mobile Phase A : Buffer: methanol: water (10: 30: 60 v/v/v)
Mobile Phase B : Buffer: water: methanol (5: 35: 60 v/v/v)
Gradient :

Time (minutes)	Mobile phase A (% v/v)	Mobile Phase B (% v/v)
0 – 2	85	15
2 – 5	85 – 70	15 – 30
5 – 17	70 – 0	30 – 100
17 – 22	0	100
22 – 23	0 – 85	100 – 15
23 – 30	85	15



British Pharmacopoeia

Diluent : 0.2 M potassium dihydrogen phosphate: water (25: 75, v/v) adjusted to pH 6.5
with 0.84% w/v sodium hydroxide

Flow rate : 1.5 mL/min

Column Temp : 50 °C

Injection Volume : 20 µL

Detection : UV 254 nm