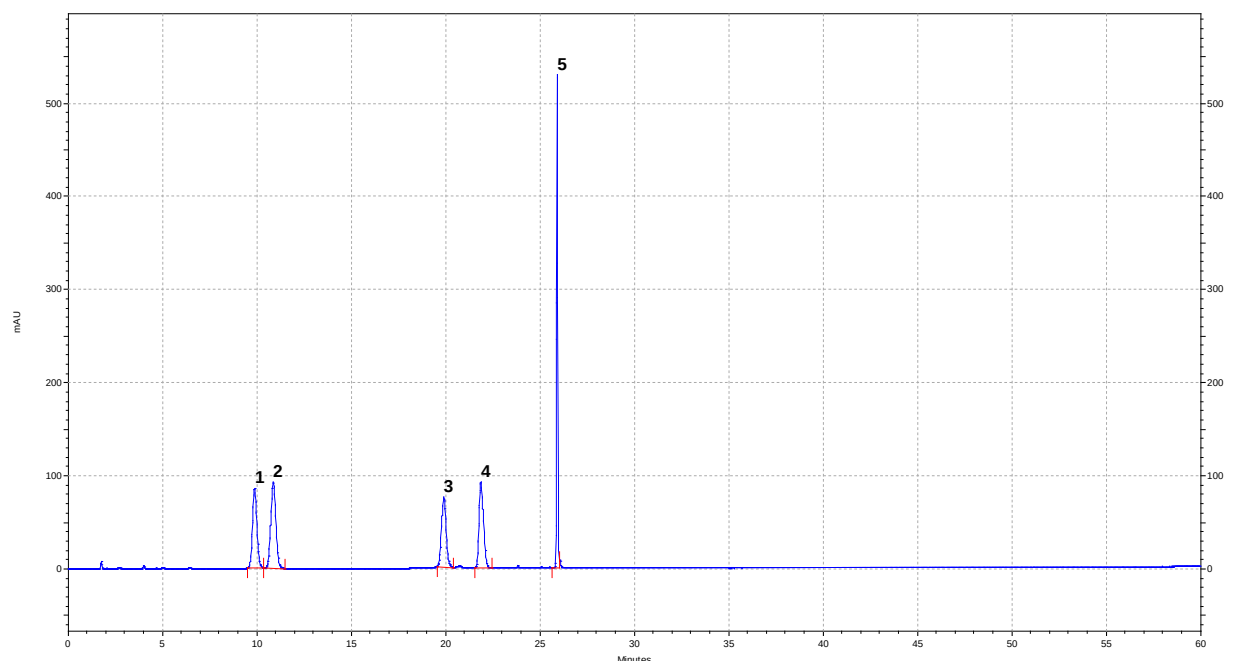




Methotrexate Oral Solution – BP 2015

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

Typical chromatogram for solution (4) in the Related Substances test for Methotrexate Oral Solution as published in BP 2015.



Peak ID: 1: Impurity C; 2: Impurity B; 3: Impurity D; 4: Methotrexate; 5: Impurity E

Column : Waters Symmetry C18 (250 mm x 4.6 mm, 5µm)
Method Ref. : Related Substances method for the Methotrexate Oral solution monograph from BP 2015
Buffer : 0.34% w/v anhydrous disodium hydrogen orthophosphate solution adjusted to pH 6.0 with 4.2% w/v sodium hydroxide
Mobile Phase A : A mixture of 5 volumes of acetonitrile and 95 volumes of buffer.
Mobile Phase B : A mixture of 50 volumes of acetonitrile and 50 volumes of buffer.

Gradient :

Time (min)	Mobile Phase A (% v/v)	Mobile Phase B (% v/v)
0-10	100	0
10-20	100-95	0-5
20-28	95-50	5-50
28-55	50	50
55-55.1	50-100	50-0
55.1-65	100	0

Diluent : Mobile phase A
Flow Rate : 1.5 mL/min
Column Temp : 25°C
Injection Volume : 20 µL
Detection : 280 nm