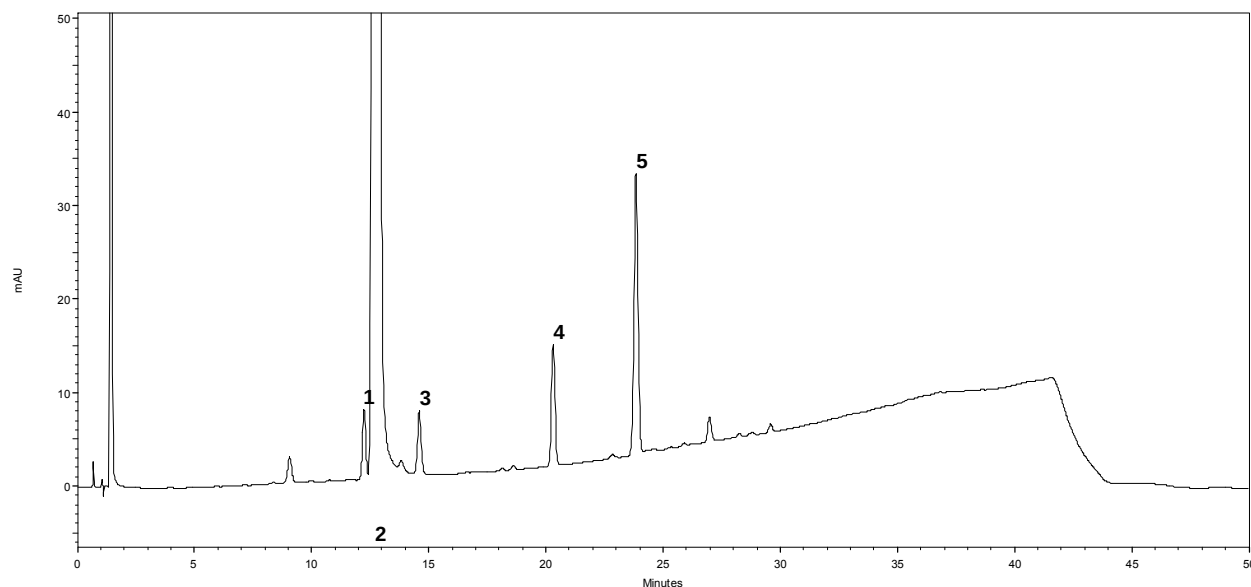




Morphine Suppositories – BP 2018

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 Morphine Suppositories as published in BP 2018.



Peak ID: 1: Impurity F; 2: Morphine sulfate; 3: Impurity E; 4: Impurity C; 5: Impurity B.

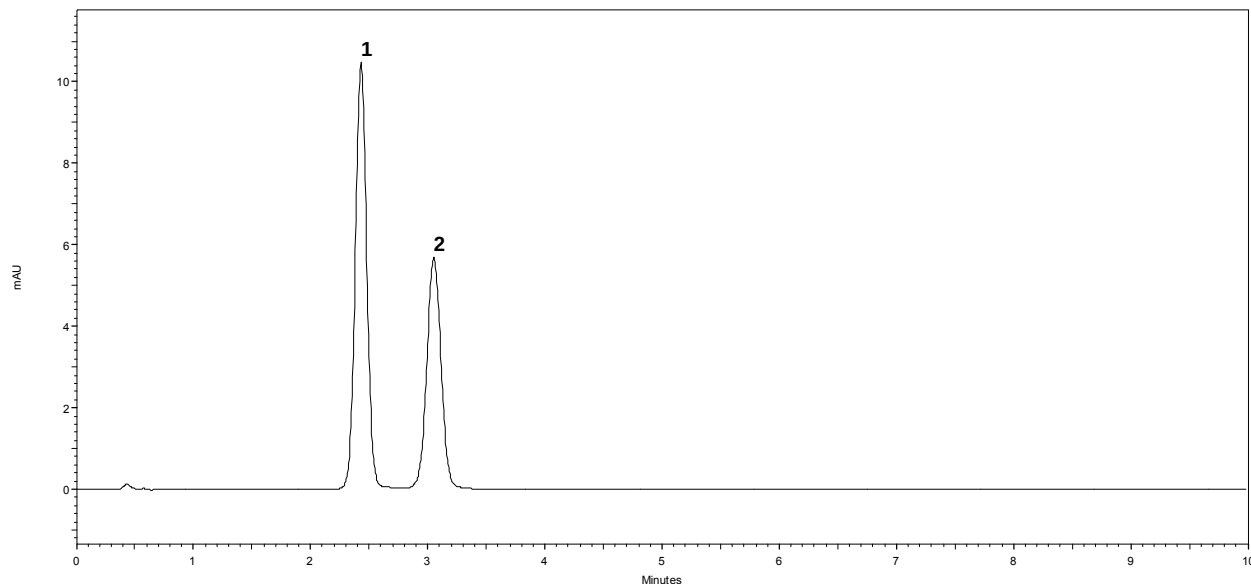
Column : Waters Symmetry C18 (150 mm × 4.6 mm, 5 µm)
Mobile Phase A : 0.101 % w/v sodium heptanesulfonate adjusted to pH 2.6 with 50 % v/v orthophosphoric acid.
Mobile phase B : Methanol
Gradient :

Time (min)	Mobile Phase A (%)	Mobile Phase B (%)
0-2	85	15
2-35	85-50	15-50
35-40	50	50
40-42	50-85	50-15
42-50	85	15

Diluent : 1 % v/v acetic acid
Flow Rate : 1.5 mL/min
Column Temp : 35°C
Injection Volume : 50 µL
Detection : UV, 230 nm



Typical chromatogram for solution (3) in the Assay test for Morphine Suppositories as published in BP 2018.



Peak ID: 1: Morphine sulfate; 2: Codeine phosphate

Column	: Nucleosil C18 (100 mm X 4.6 mm, 5 µm)
Mobile Phase	: A solution of 0.005 M dioctyl sodium sulfosuccinate and 0.01 M sodium acetate in methanol (60 %) adjusted to pH 5.5 with glacial acetic acid.
Diluent	: Methanol (60 %, v/v)
Flow Rate	: 2.0 mL/min
Column Temp	: 25°C
Injection Volume	: 20 µL
Detection	: UV, 285 nm