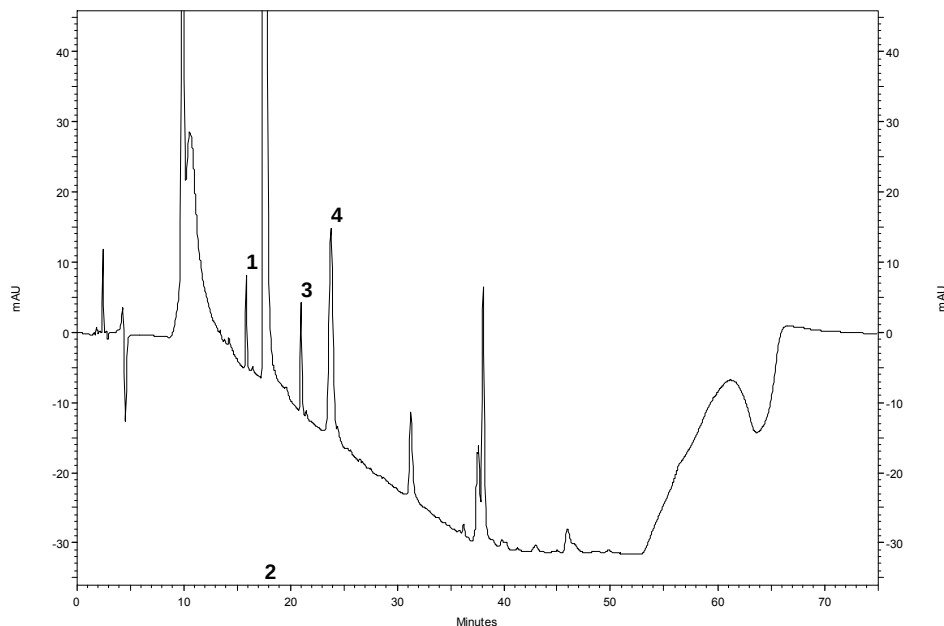




Lorazepam Tablets – BP 2019

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 Lorazepam Tablets as published in BP 2019.



Peak ID: 1: Impurity D; 2: Lorazepam; 3: Impurity B; 4: Impurity E

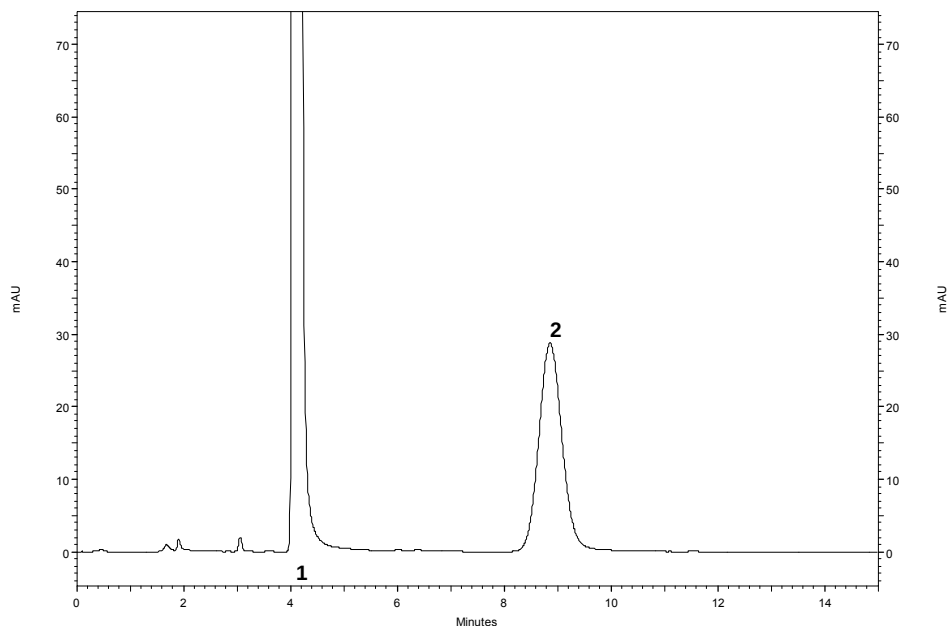
Column : Zorbax Extend C18 (250 mm x 4.6 mm, 5 µm)
Buffer : 3.48 g of dipotassium hydrogen orthophosphate dissolved in a mixture of 50 mL of acetonitrile and 850 mL of water and the pH adjusted to 10.5 with 4.0 % w/v sodium hydroxide solution, all diluted to 1 L with water.
Mobile Phase A : Acetonitrile : buffer (20:80, v/v)
Mobile Phase B : Buffer : Acetonitrile (30:70, v/v)
Gradient :

Time (min)	Mobile Phase A (%)	Mobile Phase B (%)
0-5	100	0
5-35	100-0	0-100
35-50	0	100
50-60	0-100	100-0
60-75	100	0

Diluent : Acetonitrile : water (50:50, v/v)
Flow Rate : 1.0 mL/min
Column Temp : 25°C
Injection Volume : 5 µL
Detection : UV, 235 nm



Typical chromatogram for solution (3) in the Assay test for Lorazepam Tablets as published in BP 2019.



Peak ID: 1: Lorazepam; 2: Impurity E

Column	: Zorbax Extend C18 (250 mm x 4.6 mm, 5 μ m)
Buffer	: 3.48 g of dipotassium hydrogen orthophosphate dissolved in a mixture of 50 mL of acetonitrile and 850 mL of water and the pH adjusted to 10.5 with 4.0 % w/v sodium hydroxide solution, all diluted to 1 L with water.
Mobile phase	: Acetonitrile : buffer (45:55, v/v)
Diluent	: Acetonitrile : water (50:50, v/v)
Flow Rate	: 1.0 mL/min
Column Temp	: 25°C
Injection Volume	: 5 μ L
Detection	: UV, 235 nm