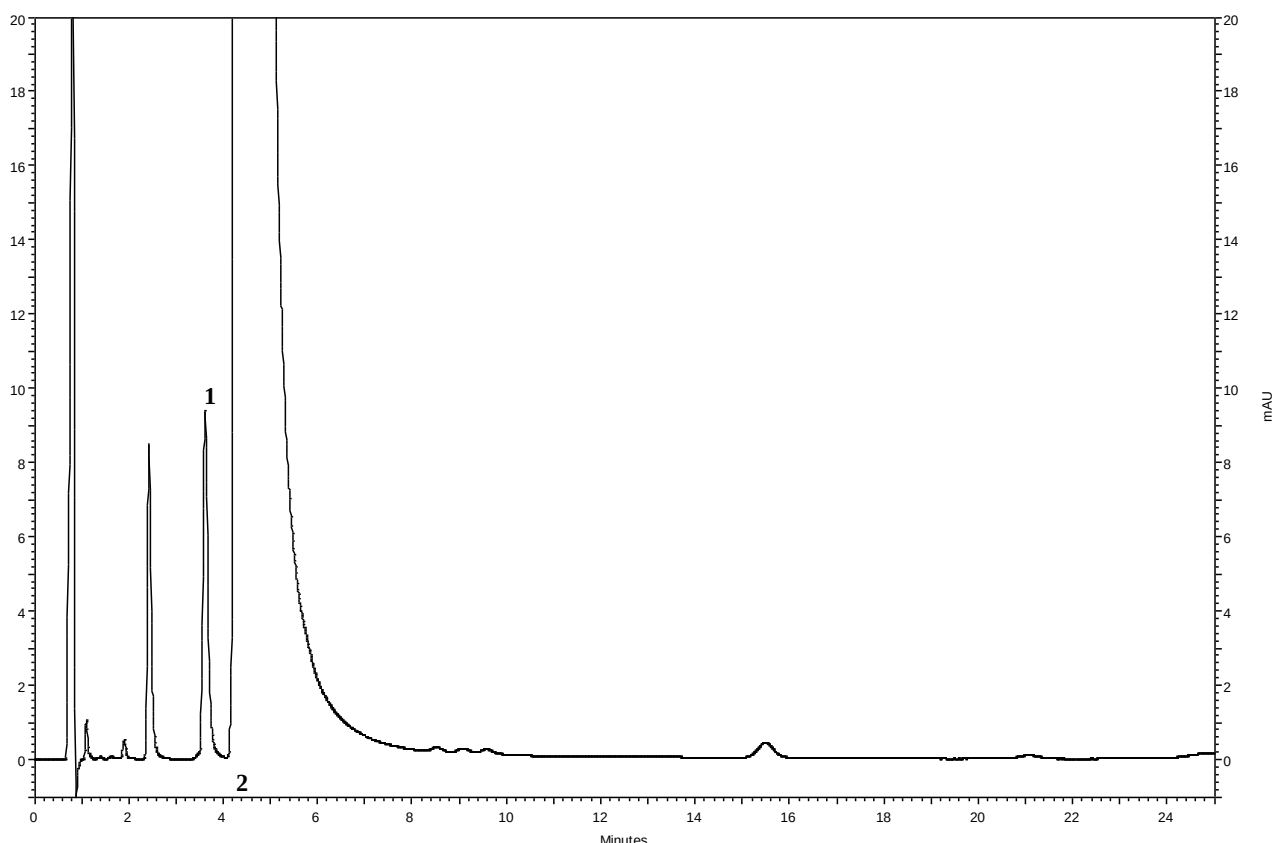




Diltiazem Prolonged-release Tablets – BP 2022

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 Diltiazem Prolonged-release Tablets as published in BP 2022.



Peak ID: 1: Impurity A; 2: Diltiazem

Column	: Thermo Scientific, Hypersil BDS C18 (100 mm x 4.6 mm, 3.0 µm)
Method Ref.	: Related Substances for the Diltiazem Prolonged-release Tablets monograph from BP 2022
Mobile Phase	: Ethanol (absolute) : acetonitrile : buffer (5: 25 :70, v/v/v)
Buffer	: 6.8 g of potassium dihydrogen phosphate in 250 mL of water, to which was added 0.1 mL of N,N-dimethyloctylamine and sufficient water to produce 1000 mL. The pH was adjusted to 4.5 with 2 M orthophosphoric acid.
Diluent	: Methanol: water (50: 50, v/v)
Flow rate	: 1.5 mL/min
Column Temp	: 25 °C
Injection Volume	: 20 µL
Detection	: 240 nm