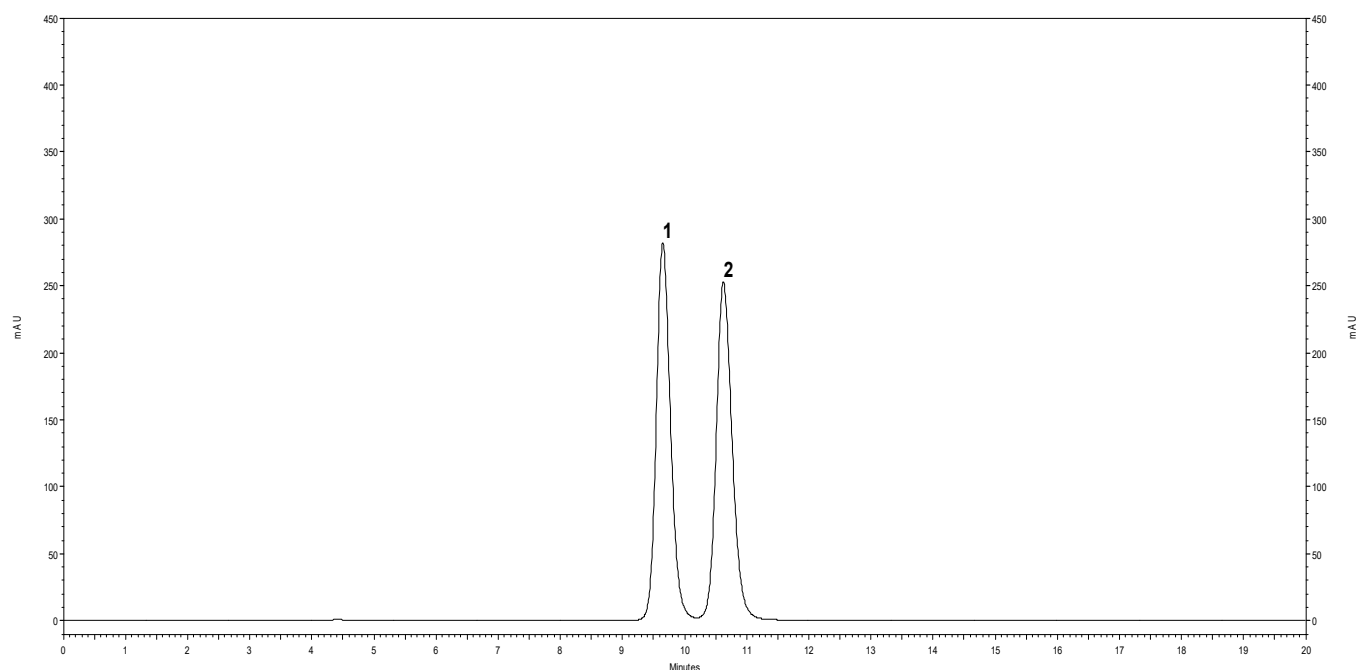




Adrenaline Injection – BP 2021

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 A test for Adrenaline Injection as published in BP 2021.

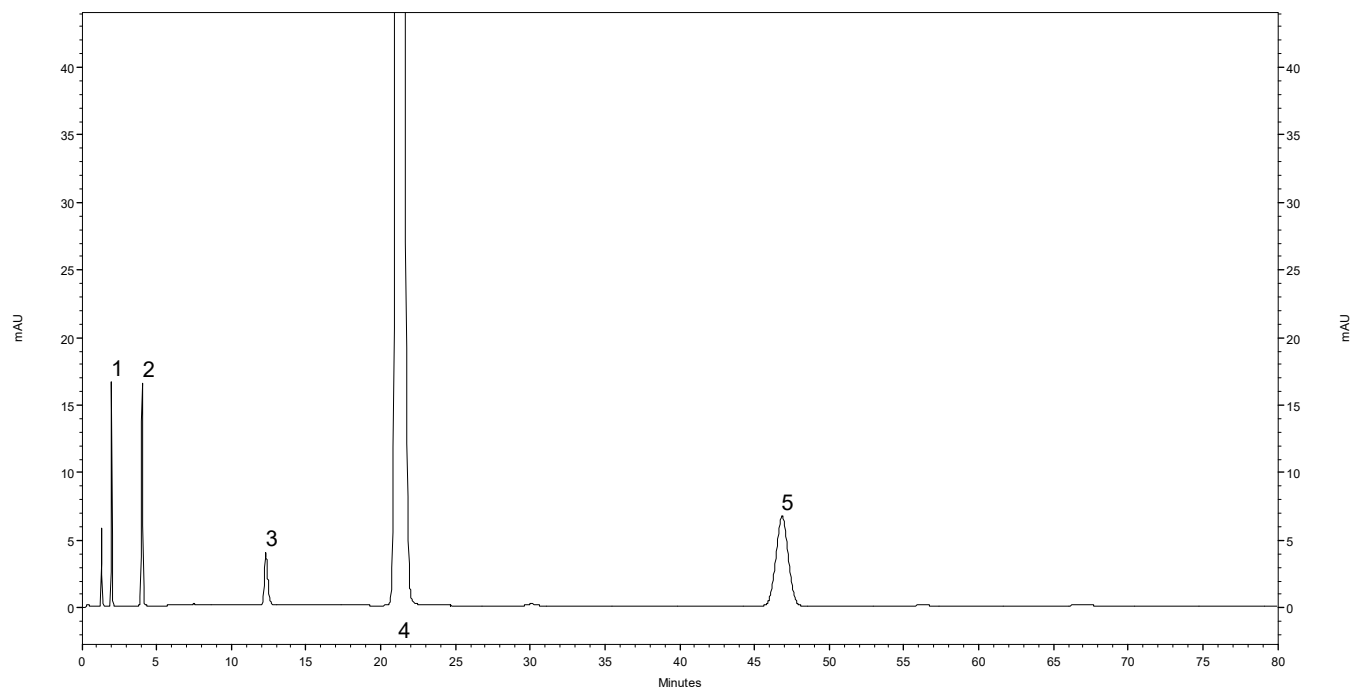


Peak ID: 1: L-adrenaline, 2: D-adrenaline

Column	: Shodex, ORpak, CDBS-453 (150 mm x 4.6 mm, 3 µm)
Method Ref.	: Related Substances A for the Adrenaline Injection monograph from BP 2021
Mobile Phase	: Buffer 1: acetonitrile : buffer 2 (1:3:96, v/v/v)
Buffer 1	: 0.2 M potassium chloride and 0.4 % v/v glacial acetic acid
Buffer 2	: 0.2 M potassium chloride
Diluent	: Mobile phase
Flow rate	: 0.7 mL/min
Column Temp	: 10 °C
Injection Volume	: 20 µL
Detection	: 280 nm



Typical chromatogram for the Solution (4) for the Related Substances B test for Adrenaline Injection as published in BP 2021.



Peak ID: 1: Impurity F; 2: Impurity 2; 3: Impurity B; 4: Adrenaline; 5: Impurity C

Column	: Zorbax Eclipse, XBD, C18 (250 mm x 4.6 mm, 5.0 μ m)
Method Ref.	: Related substances B for the Adrenaline Injection monograph from BP 2021
Mobile Phase	: Methanol: buffer (5:95, v/v) adjusted to pH of 3.5 with 1M sodium hydroxide
Buffer	: 0.2 mM EDTA, 5.4 mM sodium 1-heptanosulfonate and 23 mM tetramethylammonium hydrogen sulfate solution
Diluent	: Mobile phase
Flow rate	: 1.5 mL/min
Column Temp	: Ambient (25 °C)
Injection Volume	: 20 μ L
Detection	: 280 nm