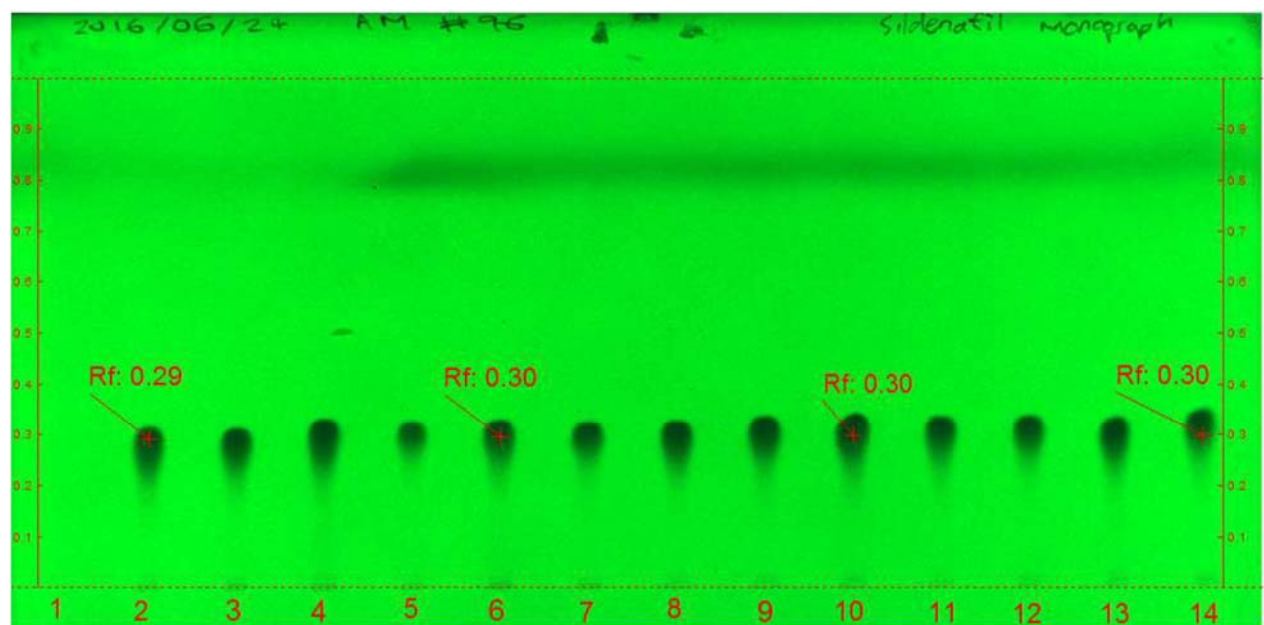


## Sildenafil Tablets – BP 2018

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 the Identification test for Sildenafil Tablets by Thin Layer Chromatography as published in BP 2018.



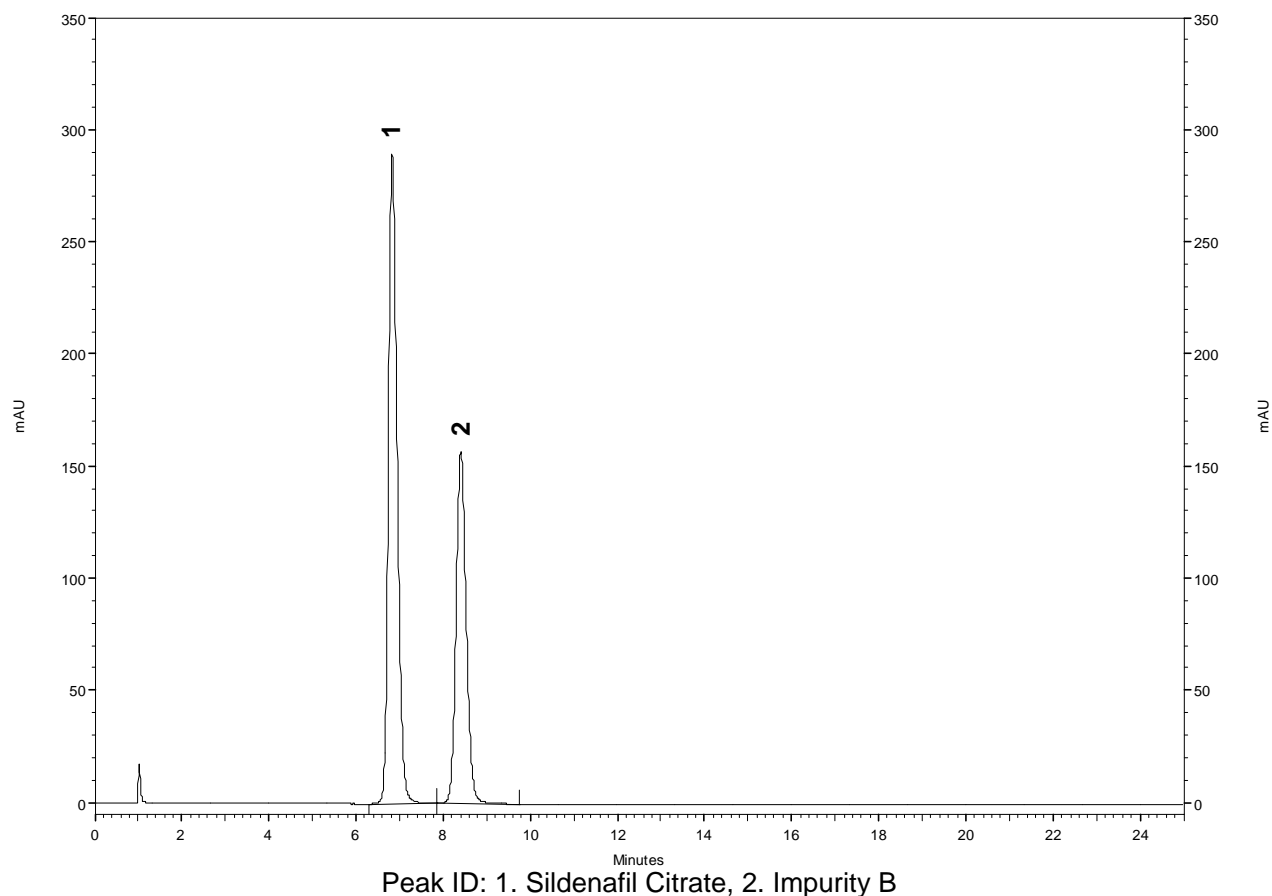
- |        |  |
|--------|--|
| 1      | Blank                                  |
| 2      | 0.25 % w/v sildenafil citrate standard |
| 3      | System suitability                     |
| 4 – 12 | Tablets 0.25 % w/v solution            |
| 13     | 0.25 % w/v sildenafil citrate standard |
| 14     | System suitability                     |



TLC plate	Merck TLC silica gel 60 F254 Plate, 10 cm x 20 cm, h x w
Plate preconditioning	N/A
Diluent	Methanol
Mobile Phase	Methanol: ethyl acetate (40 : 80, v/v)
Mobile Phase volume	120 mL
Band application	3 mm band size with a spotting volume of 10 µL
Chamber saturation	Minimum 60 minutes at room temperature
Development	8 cm
Development time	9 minutes
Drying time	2 minutes under a warm current of air
Derivatisation	N/A
Visualisation	UV light (254 nm)



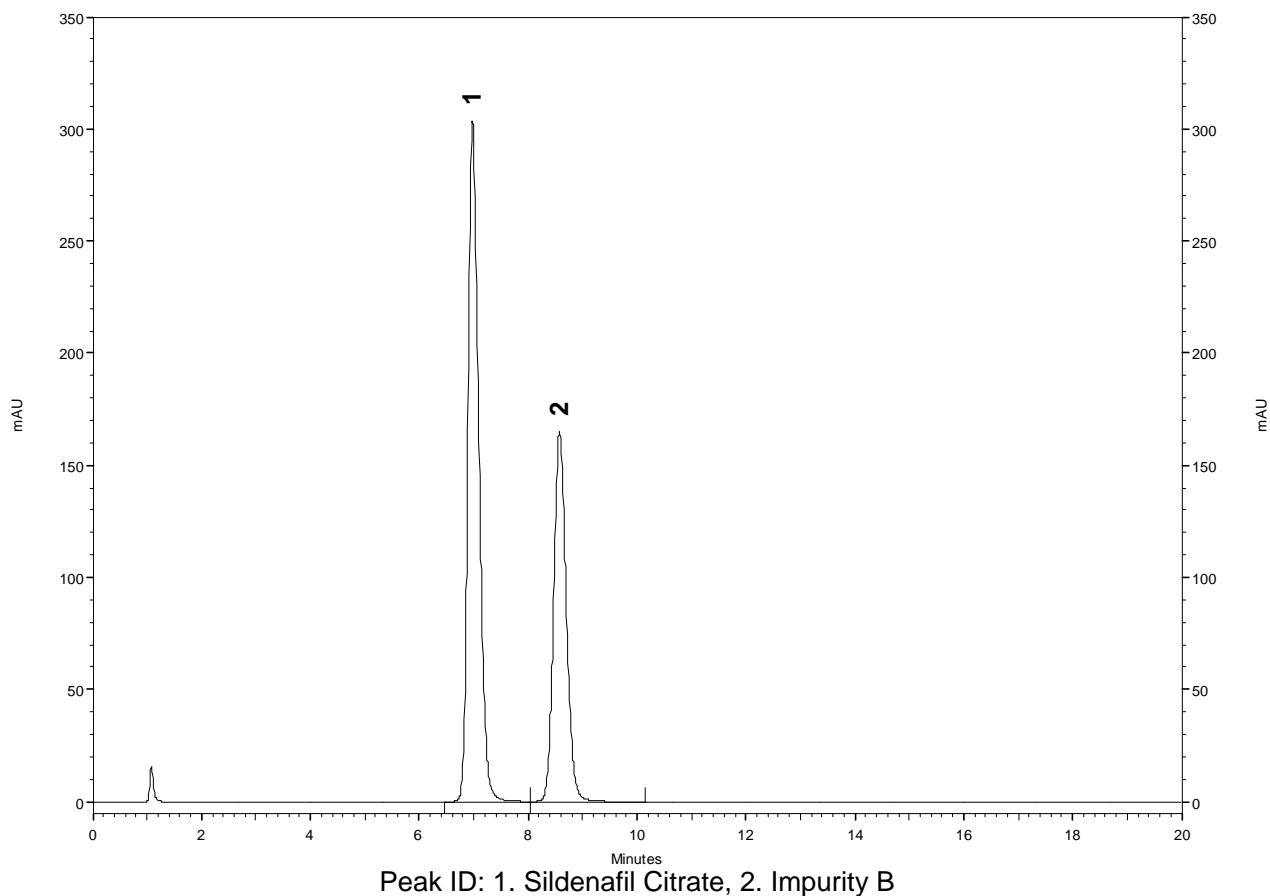
Typical chromatogram for solution (3) in the Related Substances test for Sildenafil Tablets as published in BP 2018.



Column : Waters, Symmetry C18 (150 mm x 3.9 mm x 5 µm)  
Method Ref. : Related substances for the Sildenafil Tablets Monograph from BP 2018  
Mobile Phase : 0.7 % v/v of Triethylamine pH 3.0: Acetonitrile: Methanol (58: 17: 25, v/v/v)  
Diluent for solution (3): Formic acid: Hydrogen peroxide (1:2, v/v): Mobile phase (1: 250, v/v)  
Diluent for solution (1): 90 % Acetonitrile: Mobile phase (50: 50, v/v)  
Flow Rate : 1.0 mL/min  
Column Temp : 30 °C  
Injection Volume : 20 µL  
Detection : UV, 290 nm



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



Column : Waters, Symmetry C18 (150 mm x 3.9 mm x 5 µm)  
Method Ref. : Related substances for the Sildenafil Tablets Monograph from BP 2018  
Mobile Phase : 0.7 % v/v of Triethylamine pH 3.0: Acetonitrile: Methanol (58: 17: 25, v/v/v)  
Diluent for solution (3): Formic acid: Hydrogen peroxide (1:2, v/v): Mobile phase (1: 250, v/v)  
Diluent for solution (1): 90 % Acetonitrile: Mobile phase (1: 50, v/v)  
Flow Rate : 1.0 mL/min  
Column Temp : 30 °C  
Injection Volume : 20 µL  
Detection : UV, 290 nm