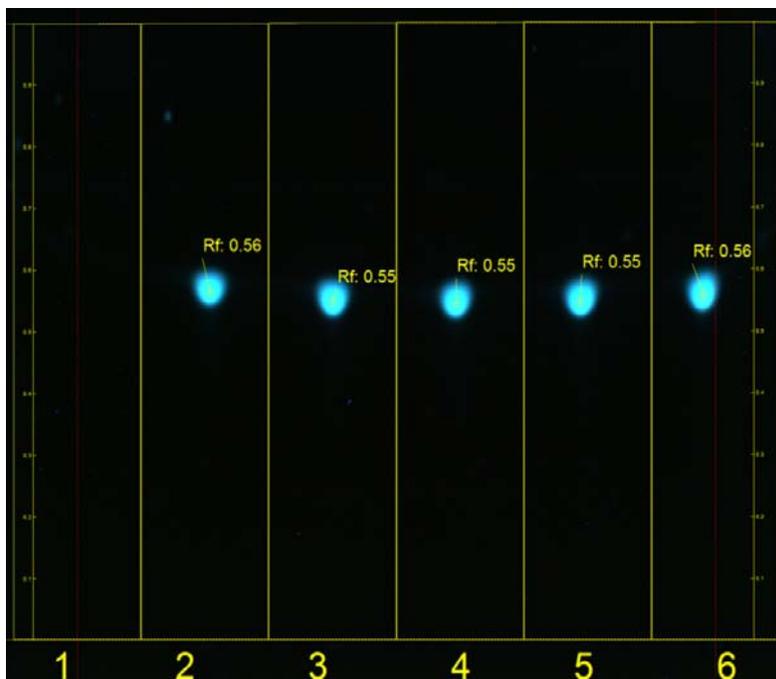


Moxifloxacin Tablets – BP 2019

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.

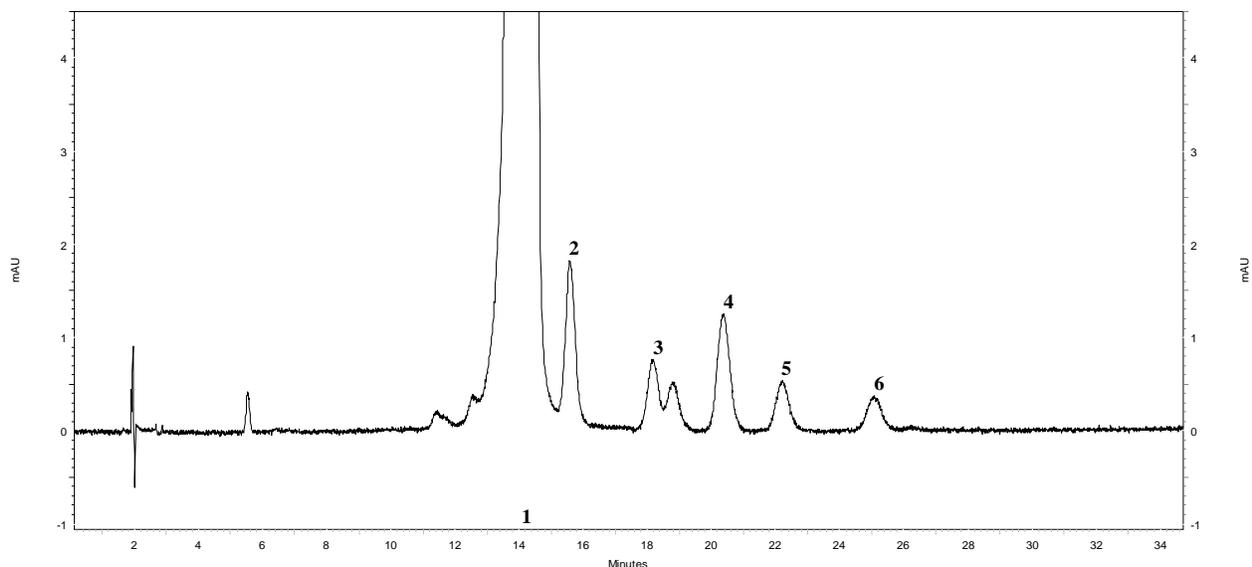
Typical chromatogram for the identification test for Moxifloxacin Tablets by Thin Layer Chromatography as published in BP 2019.



- | | |
|-------|---|
| 1 | Blank |
| 2 | 0.02 % w/v moxifloxacin standard solution |
| 3 - 6 | 0.02 % w/v sample solution preparations |

TLC plate	Merck TLC silica gel 60 F ₂₅₄ plate (20 cm x 20 cm)
Plate preconditioning	N/A
Diluent	85% v/v orthophosphoric acid: water (1: 999 v/v)
Mobile Phase	6 M ammonia : n-butanol : methanol (2:4:4 v/v/v)
Mobile Phase volume	100 mL
Band application	3 mm band size with a spotting volume of 10 µL
Chamber saturation time	Minimum 60 minutes at room temperature
Development	15 cm
Development time	169 minutes
Drying time	1 minute under a stream of warm air
Derivatisation	N/A
Visualisation	Developed plate was visualised under UV light (366 nm)

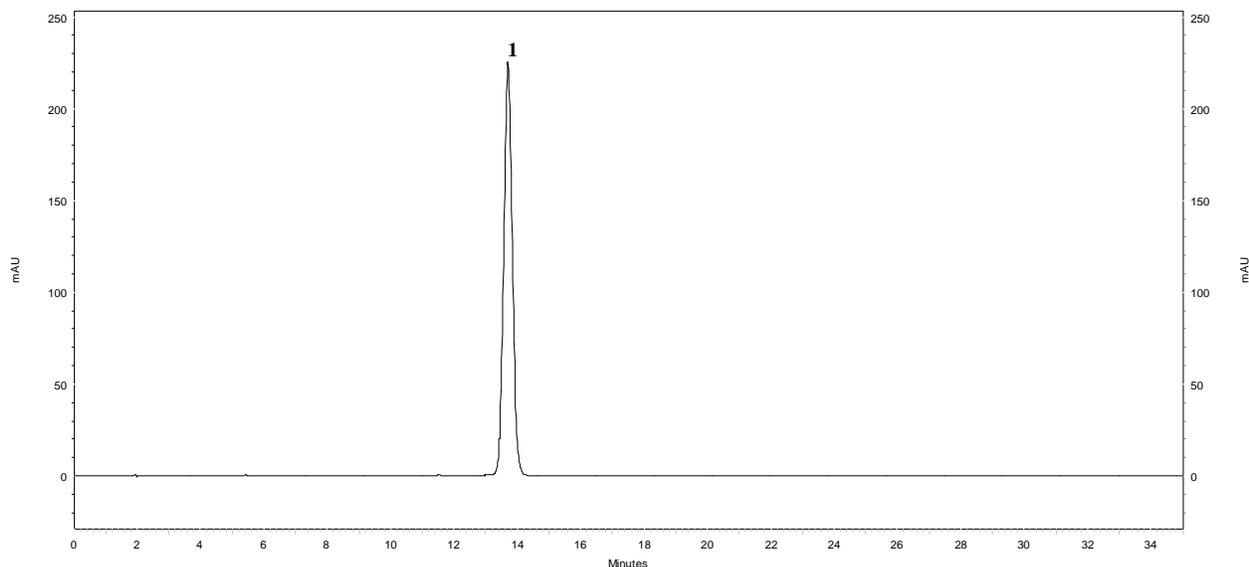
Typical chromatogram for solution (3) in the Related Substances for Moxifloxacin Tablets as published in BP 2019.



Peak ID: 1: Moxifloxacin; 2: Impurity A; 3: Impurity B; 4: Impurity C; 5: Impurity D; 6: Impurity E

Column : Zorbax, Eclipse XDB Phenyl (250 mm x 4.6 mm, 5 μ m)
Buffer : 0.05% w/v tetrabutylammonium hydrogen sulfate : 0.1% w/v potassium dihydrogen phosphate: 0.34% v/v phosphoric acid in water
Mobile Phase : Methanol : buffer (28:72, v/v)
Diluent : 0.05% w/v tetrabutylammonium hydrogen sulfate : 0.1% w/v potassium dihydrogen phosphate: 0.2% v/v phosphoric acid : 0.005% w/v sodium sulfite in water
Flow rate : 1.3 mL/min
Column Temp : 45 °C
Injection Volume : 10 μ L
Detection : UV, 293 nm

Typical chromatogram for solution (2) in the Assay test for Moxifloxacin Tablets as published in BP 2019.



Peak ID: 1: Moxifloxacin

Column : Zorbax, Eclipse XDB Phenyl (250 mm x 4.6 mm, 5 μ m)
Buffer : 0.05% w/v tetrabutylammonium hydrogen sulfate : 0.1% w/v potassium dihydrogen phosphate : 0.34% v/v phosphoric acid in water
Mobile Phase : Methanol : buffer (28:72, v/v)
Diluent : 0.05% w/v tetrabutylammonium hydrogen sulfate : 0.1% w/v potassium dihydrogen phosphate: 0.2% v/v phosphoric acid : 0.005% w/v sodium sulfite in water (w/w/v/v/v)
Flow rate : 1.3 mL/min
Column Temp : 45 °C
Injection Volume : 10 μ L
Detection : UV, 293 nm