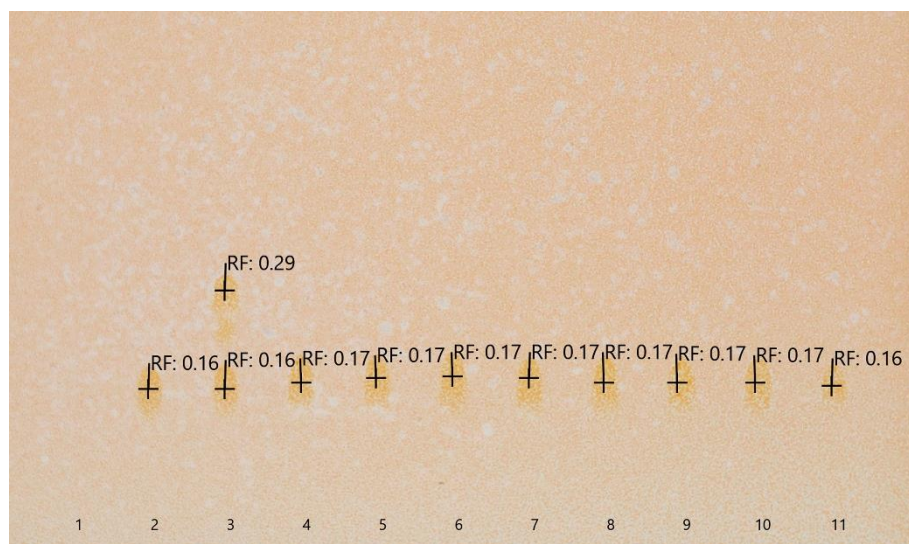


Quinine Sulfate Oral Suspension – BP 2024

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.

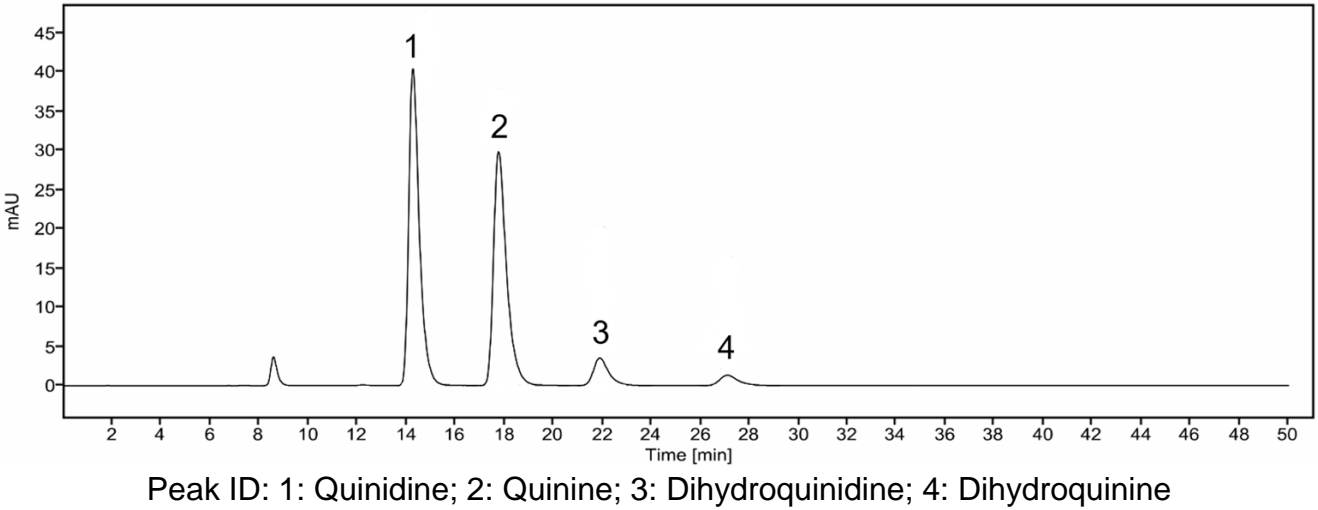
Typical chromatogram for the Identification test for Quinine Sulfate Oral Suspension by Thin Layer Chromatography as published in BP 2024.



| | |
|------|--|
| 1 | Blank |
| 2 | Solution (2): 1.0% w/v quinine sulfate standard solution |
| 3 | Solution (2): 1.0% w/v each of quinine sulfate and quinidine sulfate |
| 4-11 | Oral solution sample 1.0% w/v solutions |

| | |
|------------------------------|---|
| TLC plate | TLC silica gel 60 precoated plate |
| Plate preconditioning | N/A |
| Diluent | 1:2 (v/v) Ethanol (96%): Dichloromethane |
| Mobile Phase | 10:20:80 (v/v/v) Diethylamine: Acetone: Toluene |
| Band application | 3 mm band size with a spotting volume of 2 µL |
| Development | 150 mm |
| Development time | 38 minutes |
| Derivatisation | Spray 1: 0.05M Ethanolic sulfuric acid Spray 2: Dilute potassium iodobismuthate solution |
| Visualisation | White light |

Typical chromatogram for solution (4) in the Other cinchona alkaloids test and solution (3) in the Assay test for Quinine Sulfate Oral Suspension as published in BP 2024.



| | |
|-------------------------|---|
| Column | Agilent Zorbax SB, C18 (250 mm x 4.6 mm, 5 µm) |
| Method Ref. | Other cinchona alkaloids (and Assay) for the Quinine Sulfate Oral Suspension monograph from BP 2024 |
| Mobile phase | 6.8 g of potassium dihydrogen orthophosphate and 3.0 g of hexylamine dissolved in 700 mL of water, adjusted to pH 2.8 with 1M orthophosphoric acid. 60 mL of acetonitrile was added and diluted to 1000 mL with water |
| Diluent | Mobile phase |
| Flow rate | 1.5 mL/min |
| Column Temp | 25 °C |
| Injection Volume | 10 µL |
| Detection | 316 nm |