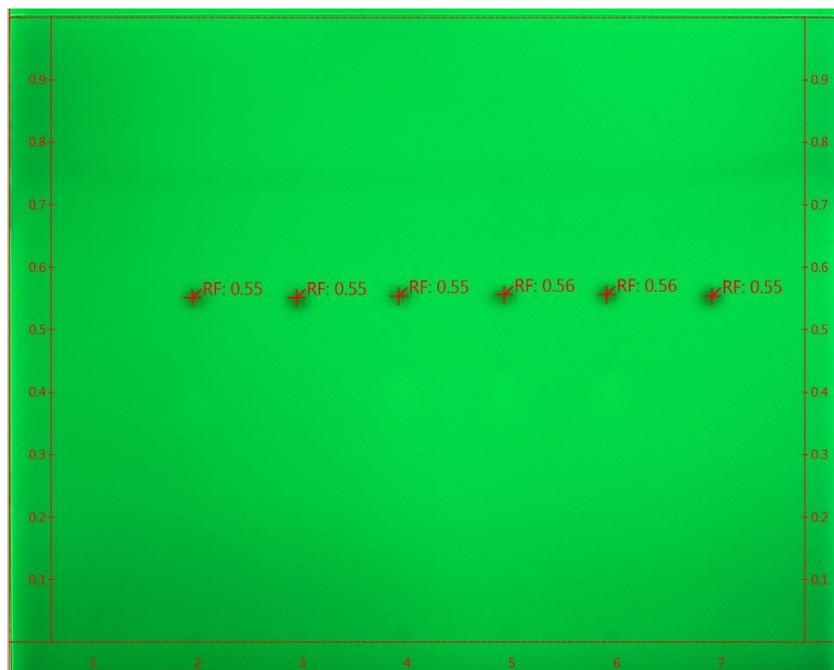




Mometasone Cream – BP 2021

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 the Identification test for Mometasone Cream by Thin Layer Chromatography as published in BP 2021.

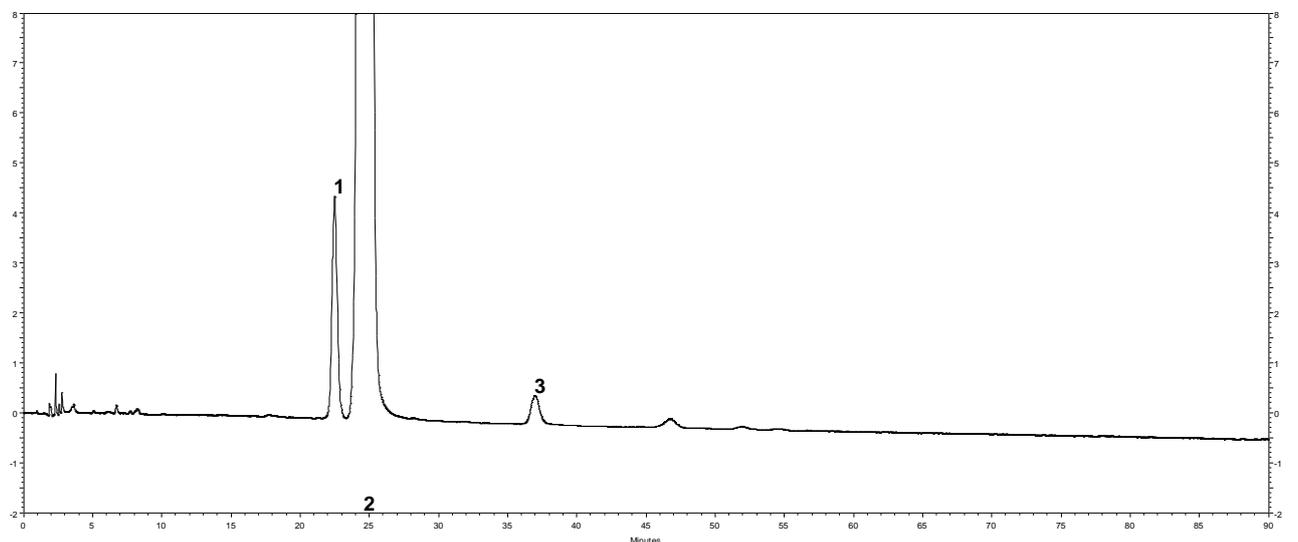


- | | |
|-------|---|
| 1 | Blank |
| 2 | System suitability solution |
| 3 & 7 | 0.0125 % w/v mometasone furoate standard solution |
| 4-6 | Cream 0.0125 % w/v solution |

TLC plate	Merck TLC silica gel 60 F254 plate (20 cm x 20 cm)
Plate preconditioning	N/A
Diluent	Methanol (80%)
Mobile Phase	Acetonitrile: methanol: ethyl acetate: toluene (3.1: 10.2: 25.5: 61.2, v/v/v/v)
Mobile Phase volume	100 mL
Band application	3 mm band size with a spotting volume of 20 µL
Chamber saturation	Minimum 60 minutes at room temperature
Development	150 mm
Development time	42 minutes
Drying time	1 minute in current of warm air
Derivatisation	N/A
Visualisation	Developed plate examined under UV light (254 nm)



Typical chromatogram for solution (3) in the Related Substances and Assay tests for Mometasone Cream as published in BP 2021.



Peak ID: 1: Impurity C; 2: Mometasone; 3: Impurity J

Column : Symmetry C18 (250 mm x 4.6 mm, 5 µm)
Method Ref. : Assay and Related Substances for the Mometasone Cream monograph from BP 2021
Mobile Phase : Acetonitrile: water (50: 50, v/v)
Diluent : Acetonitrile: solvent A (45: 55, v/v).
Solvent A : Acetic acid: acetonitrile: water (0.1: 50: 50, v/v/v)
Flow rate : 1.0 mL/min
Column Temp : 25 °C
Injection Volume : 20 µL
Detection : 254 nm