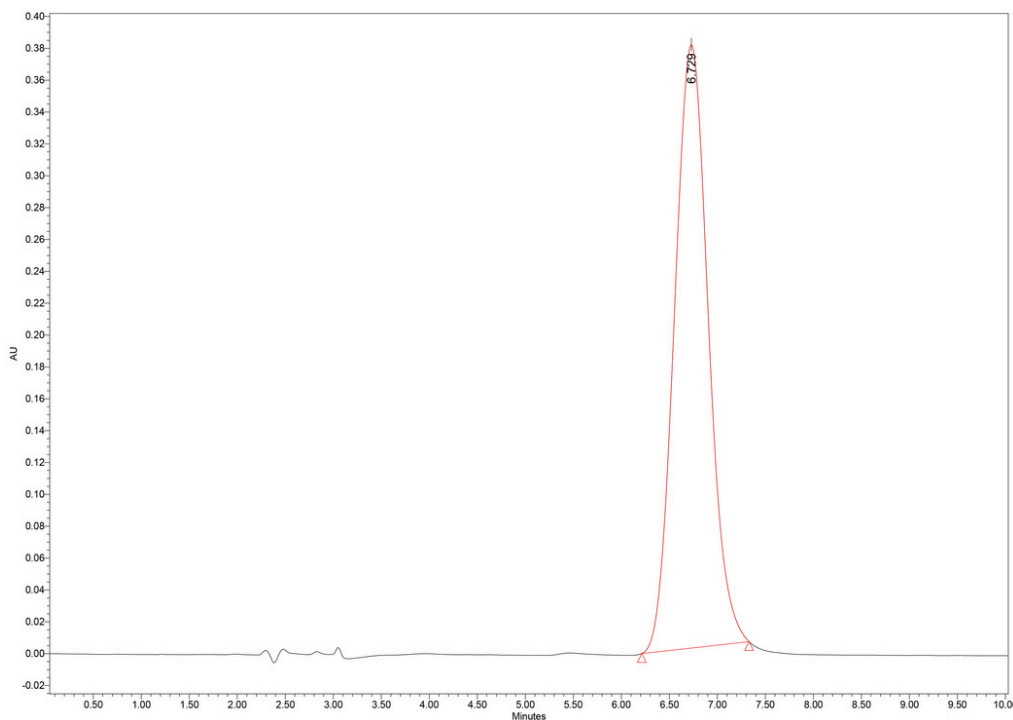


HPLC Columns

Glimepiride

RSolv[®] Capella C18, 5 μ m, 250 x 4.6 mm



Test Condition

Column: RSolv[®] Capella C18, 5 μ m, 250 x 4.6 mm

Flow Rate: 1.0 mL/min

Injection volume: 10 μ l

Detection: PDA 254 nm

Mobile Phase: 20 mM Dibasic Ammonium Phosphate:Acetonitrile (40:60 v/v)

Column Temperature: 40°C

Sample Temperature: 25°C

Discussion

The isocratic mobile phase consists of 1.32g dibasic ammonium phosphate in 750 mL of water, pH 3.5 with 5% v/v phosphoric acid, and dilute in 1000 mL water. From prepared buffer take 400 mL and add 600 mL acetonitrile mix (40:60 v/v), and pass through a filter of 0.45 μ m pore size. A RSolv Capella C18, 250 x 4.6 mm, 5 μ m analytical column from RSolv, Made in USA, was used as a stationary phase. A constant flow rate of 1.0 mL/min was employed throughout the analysis. A variable PDA detector was set at 254 nm.

The chromatographic analysis detected a significant peak at 6.729 minutes, representing Glimepiride with a tailing factor of 1.27, indicating a symmetrical peak. Theoretical plates for Glimepiride were calculated at 14314, indicating good chromatographic efficiency

For more information, Contact us at