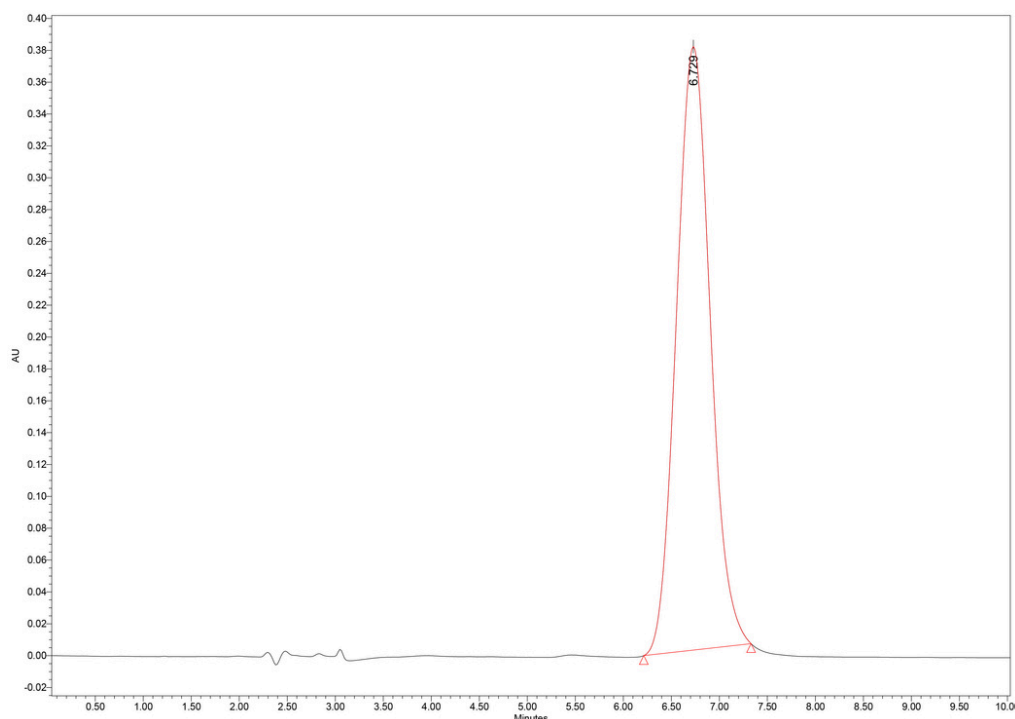




## Glimepiride

RSolv<sup>®</sup> Capella C18, 5 $\mu$ m, 250 x 4.6 mm



### Test Condition

**Column:** RSolv<sup>®</sup> Capella C18, 5 $\mu$ m, 250 x 4.6 mm

**Flow Rate:** 1.0 mL/min

**Injection volume:** 10  $\mu$ l

**Detection:** PDA 254 nm

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

**Column Temperature:** 40 $^{\circ}$ C

**Sample Temperature:** 25 $^{\circ}$ 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  $\mu$ m pore size. A RSolv Capella C18, 250 x 4.6 mm, 5  $\mu$ 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