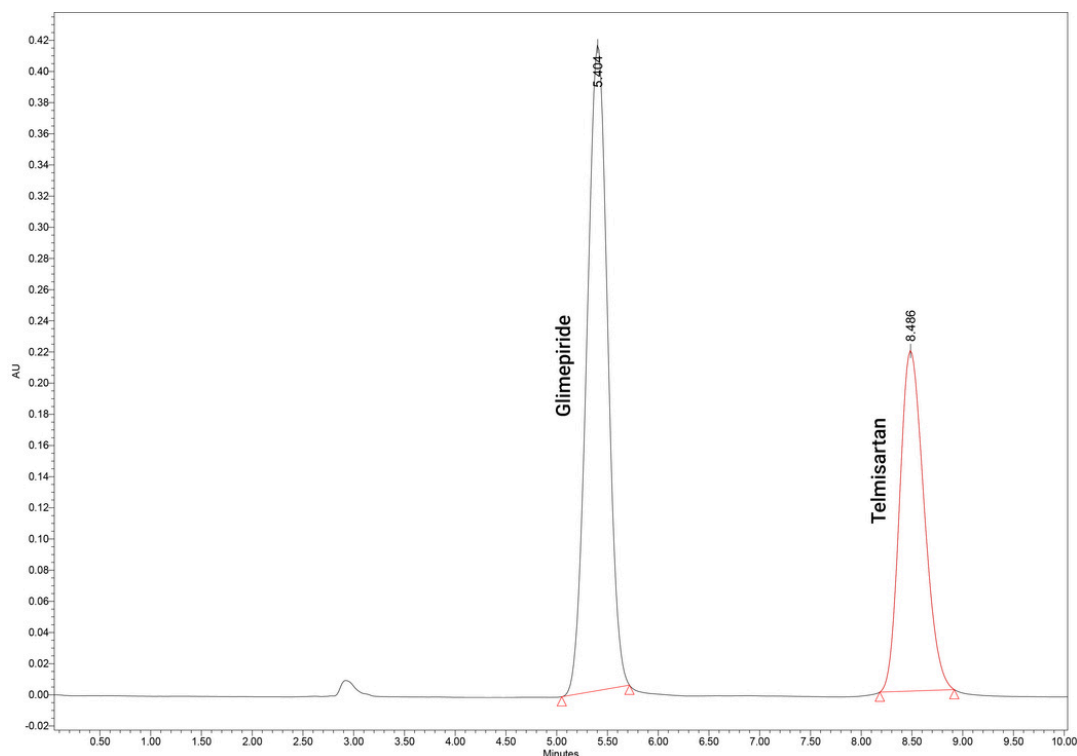


## HPLC Columns

### Glimepiride and Telmisartan

RSolv<sup>®</sup> Capella EX-C18, 5 $\mu$ m, 150 x 4.6 mm



#### Test Condition

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

**Flow Rate:** 0.6 mL/min

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

**Detection:** PDA 254 nm

**Mobile Phase:** 20 mM Dibasic Ammonium  
Phosphate: Acetonitrile (30:70 v/v)

**Column Temperature:** 35°C

**Sample Temperature:** 15°C

#### Discussion

The isocratic mobile phase consists of 1.32g dibasic ammonium phosphate in 750 mL of water, pH 2.5 with 5% v/v phosphoric acid, and dilute in 1000 mL water. From prepared buffer take 300 mL and add 700 mL acetonitrile (30:70 v/v) mix, and pass through a filter of 0.45  $\mu$ m pore size. A RSolv Capella C18, 150 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 0.6 mL/min was employed throughout the analysis. A variable PDA detector was set at 254 nm.

The chromatographic analysis detected a significant peak at 5.404 and 8.486 minutes, representing Glimepiride and Telmisartan with a tailing factor of 1.27, indicating a symmetrical peak. Theoretical plates for Glimepiride and Telmisartan were calculated at 13906 and 11877, indicating good chromatographic efficiency.

For more information, Contact us at