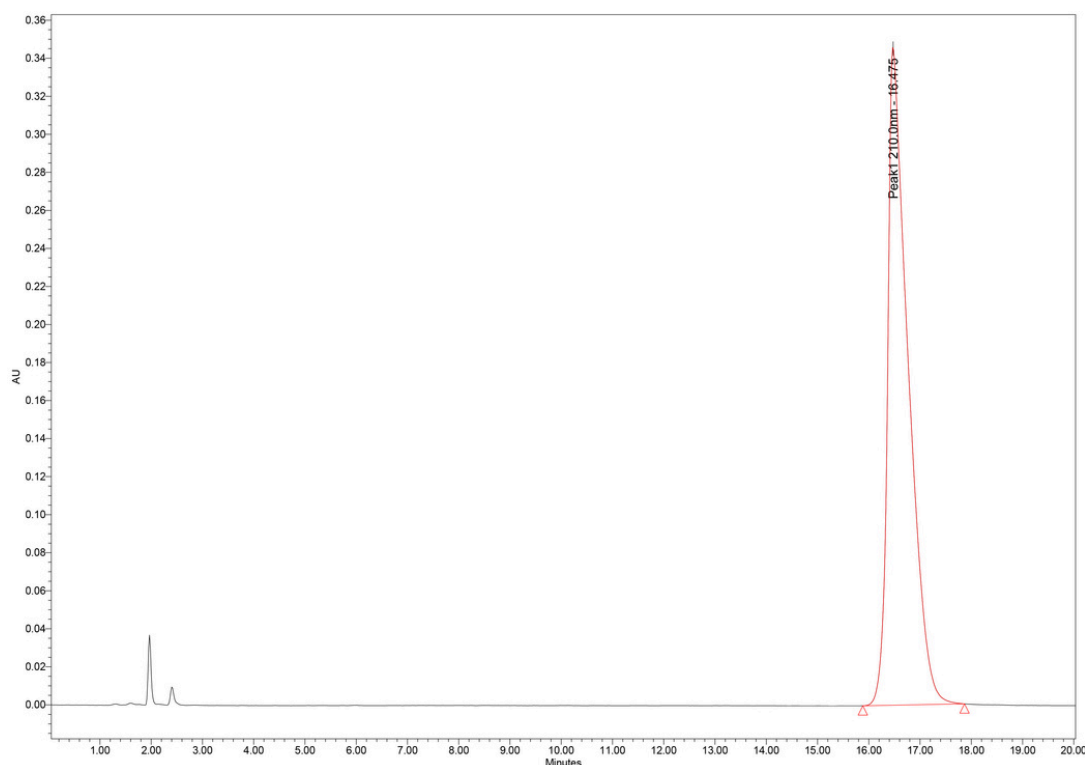


## HPLC Columns

### Tazobactam

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:** 1.5 mL/min

**Injection volume:** 20  $\mu$ l

**Detection:** PDA 210 nm

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

**Column Temperature:** 25°C

**Sample Temperature:** 25°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 to acetonitrile mix (30:70 v/v), and pass through a filter of 0.2 $\mu$ 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 1.5 mL/min was employed throughout the analysis. A variable PDA detector was set at 210 nm.

The chromatographic analysis detected a significant peak at 16.476 minutes, representing Tazobactam with a tailing factor of 1.12, indicating a symmetrical peak. Theoretical plates for Tazobactam were calculated at 21007, indicating good chromatographic efficiency

For more information, Contact us at