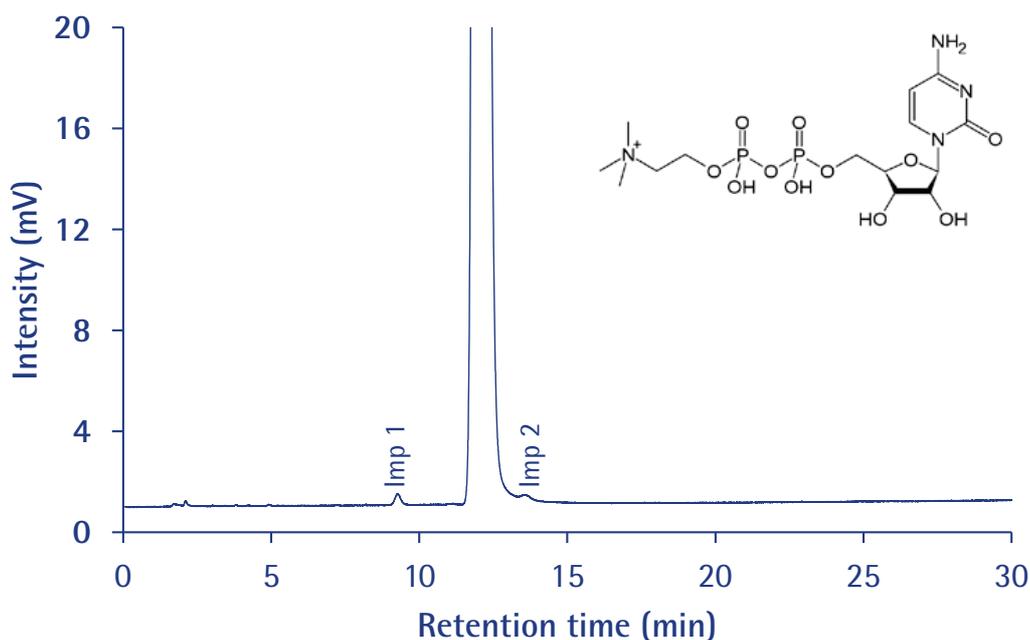


# Citicoline

## SeQuant® ZIC®-cHILIC

### Chromatographic Conditions

|                     |  |              |
|---------------------|--|--------------|
| Column:             | SeQuant® ZIC®-cHILIC (3 µm, 100 Å) 150×4.6 mm  | 1.50661.0001 |
| Injection:          | 20 µL  |              |
| Detection:          | Shimadzu Prominence, UV 276 nm   |              |
| Flow Rate:          | 0.75 mL/min  |              |
| Mobile Phase (v/v): | Buffer: Weigh 7.7 g ammonium acetate and dissolve in 1L MilliQ water.<br>Mix acetonitrile and buffer 70:30 (v/v). Total ionic strength:30 mM |              |
| Temperature:        | 30 °C  |              |
| Diluent             | Mobile phase   |              |
| Sample:             | Weigh 25 mg substance in 50 ml volumetric flask. Dissolve in diluent.  |              |
| Pressure:           | 59 Bar (856 psi)   |              |



### Chromatographic Data

| No. | Compound   | Time | T <sub>USP</sub> | Resolution* |
|-----|------------|------|------------------|-------------|
| 1   | Impurity 1 | 9.3  | 1.1              | -           |
| 2   | Citicoline | 12.0 | 1.1              | 7.1         |
| 3   | Impurity 2 | 13.6 | 1.1              | 3.9         |