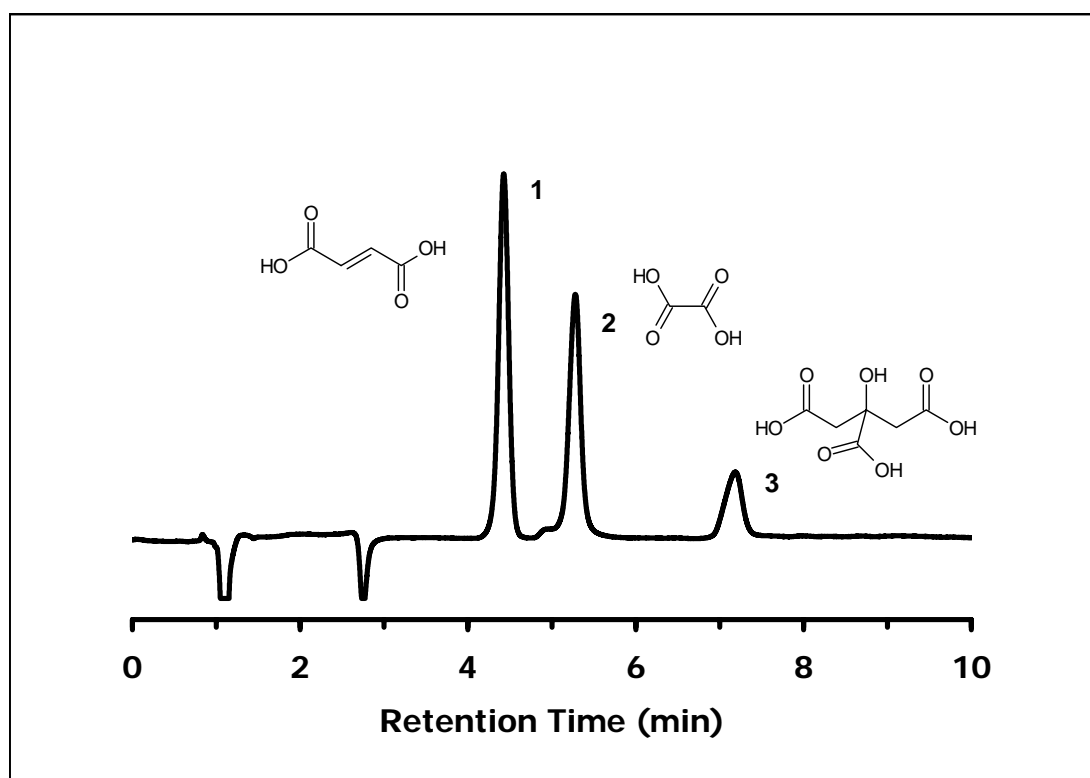


ZIC®-HILIC Separation of Fumaric, Oxalic and Citric Acid**Chromatographic Conditions**

Column: ZIC®-HILIC, PEEK 150 x 4.6 mm, 5 µm, 200 Å (P/N 2712-155)
Injection: 20 µL in mobile phase
Detection: UV @ 220 nm (UFS 1.0 V)
Pressure Drop: 8.6 MPa (1240 psi)
Flow Rate: 1.5 mL/min
Mobile Phase (v/v): 70%, Acetonitrile
30%, Ammonium Acetate 200 mM, pH 6.8

**Chromatographic Data**

| No. | Compound | Time (min) | Retention factor | Resolution |
|-----|-----------------------|------------|------------------|------------|
| | void volume (t_0) | 1.0 | - | - |
| 1 | Fumaric Acid | 4.4 | 3.4 | - |
| 2 | Oxalic Acid | 5.3 | 4.3 | 3.6 |
| 3 | Citric Acid | 7.2 | 6.2 | 6.0 |