

Separation of Organic Acids

The Use of Ion-Suppression Chromatography on an Octyl Bonded Phase

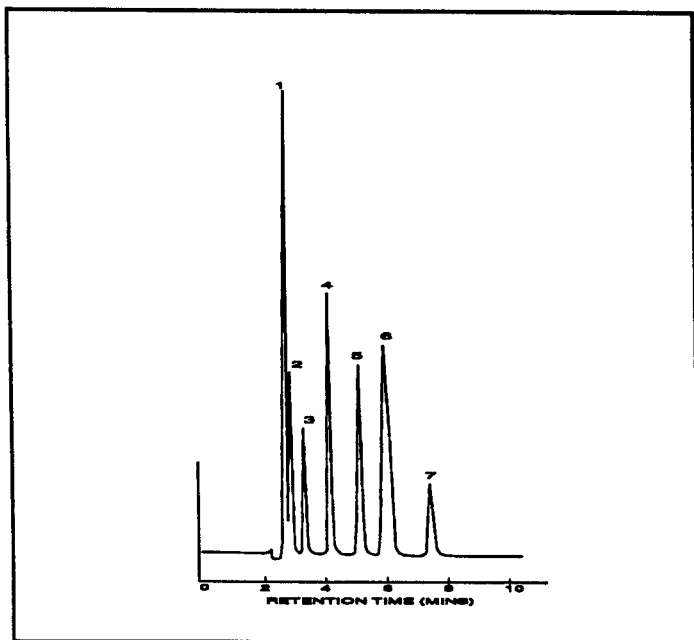
Ion suppression chromatography is used with a conditioned C8 column to give high efficiency separation of a number of naturally occurring organic acids. Detection is carried out with low UV absorption in this case although the method can be adapted for use with RI or electrochemical detection systems. The purity of the mobile phase is very important otherwise monitoring at these low wavelengths can be subject to background interference. Application with extracts from foods and biological fluids is possible if sample pre-treatment is thorough.

Column: Spherisorb S5 C8, 25cm x 4.6mm
Catalogue Number: 831815
Flow: 0.9ml/min
Detn: 200nm
Eluent: 0.02M Phosphoric Acid pH2.1
Sample: Synthetic Mixture of Organic Acids
Injection: 20µl

Peak Identification

- | | | | |
|-----------------|---------------|-----------------|----------------|
| 1 Tartaric Acid | 3 Malic Acid | 5 Citric Acid | 7 Fumaric Acid |
| 2 Formic Acid | 4 Acetic Acid | 6 Succinic Acid | |

Full Range of Organic Acids



Separation of Formic and Acetic Acid

