

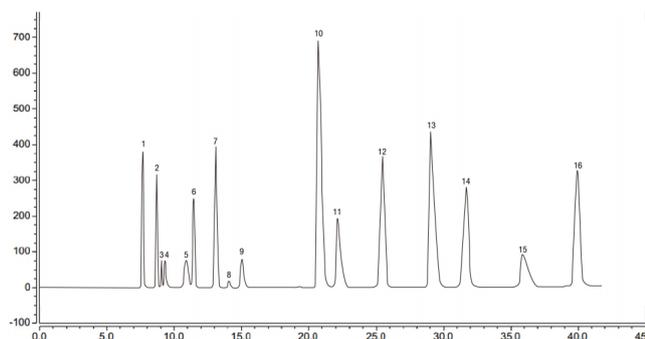
## Ultisil® OAA Column

Ultisil® OAA is a dedicated reversed-phase column developed by Welch Materials for the detection of water-soluble organic acids. It is designed for efficient and high-throughput organic acid analysis. Compared with the conventional reversed-phase C18 column, OAA column has better performance and higher resolution with more uniform peaks through improvement of the unique bonding technology.

For water-soluble organic acids with larger polarity, if the proportion of organic phase reduces to 5% on C18 column, effective retention may not be achieved. Further reduction of the organic phase or even 100% of the aqueous phase, is prone to cause phase collapse. With optimized bonding technology and the surface hydrophilic treatment of packing materials, Ultisil® OAA column can greatly improve the column's resistance to aqueous phase and the peak shape of organic acid compounds.

### Characteristics of Ultisil® OAA Column

- pH range 2.0-8.0, excellent separation ability for hydrophilic organic acids
- Each column has been tested to ensure excellent hydrolysis stability for hydrophilic organic acid analysis
- Compatible with 100% aqueous phase, having good retention for polar compounds
- Ideal selectivity for a variety of organic acids, with high column efficiency and excellent peak shape
- Excellent in separating hydroxyl fatty acids and aromatic organic acids, optimal choice for organic acid analysis in the pharmaceutical industry, food and beverage detection industry



### Separation of 16 kinds of organic acids

- |                  |                 |                      |
|------------------|-----------------|----------------------|
| 1 Oxalic acid    | 7 Ascorbic acid | 13 Cis-aconitic acid |
| 2 Tartaric acid  | 8 Lactic acid   | 14 Acrylic acid      |
| 3 Quinic acid    | 9 Acetic acid   | 15 Propionic acid    |
| 4 Methanoic acid | 10 Maleic acid  | 16 Citraconic acid   |
| 5 Pyruvic acid   | 11 Citric acid  |                      |
| 6 Malic acid     | 12 Fumaric acid |                      |

Column: Welch Ultisil® OAA 4.6×300mm  
 Mobile phase: A: 0.01 mol/L KH<sub>2</sub>PO<sub>4</sub> solution  
 B: methanol, gradient elution  
 Column temperature: 32 °C

Flow rate: 0.5 mL/min  
 Wavelength: 210 nm  
 Injection volume: 5 µL

### Ordering information

Product	P/N	Specification
Ultisil® OAA column	00278-31044	4.6×300 mm