

# IC Application Note No. O-15

**Title:** C<sub>1</sub> ... C<sub>6</sub> carboxylic acids in aqueous absorption solution

**Summary:** Determination of formate, acetate, propionate, butyrate, valerate and capronate in aqueous absorption solution using ion exclusion chromatography with conductivity detection after chemical suppression.

**Sample:** Aqueous absorption solution

**Sample Preparation:**

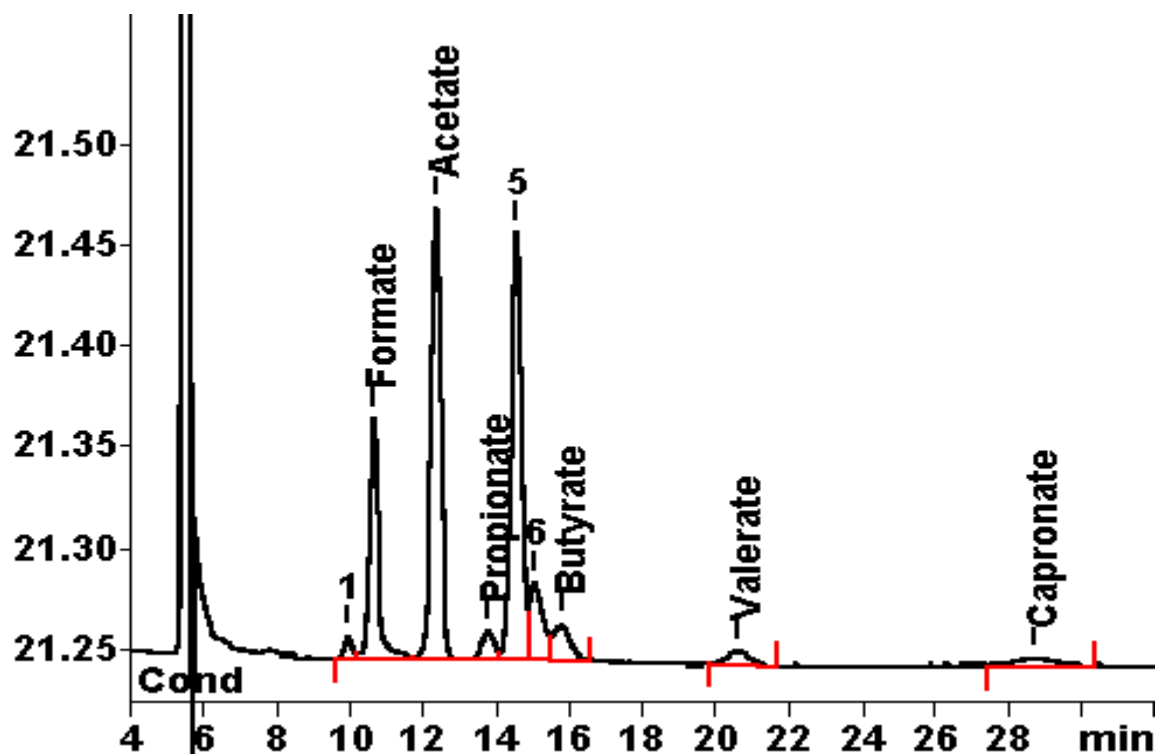
**Column:** 6.1005.200 Metrosep Organic Acids

**Eluent:** 0.5 mmol/L heptafluoro-butyric acid, 7% acetone

**Flow:** 0.5 mL/min

**Suppressor:** MSM (10 mmol/L tetrabutylammonium iodide)

**Injection Volume:** 20 µL



<b>Results:</b>	Formate mg/L	Acetate mg/L	Propionate mg/L	Butyrate mg/L	Valerate mg/L	Capronate mg/L
	0.58	1.92	0.23	0.41	0.32	0.33