

# IC Application Note No. O-37

**Title:** Organic acids in roasted coffee

**Summary:** Determination of citric, malic, quinic, succinic, lactic, formic and acetic acid in roasted coffee applying anion chromatography with conductivity detection after suppression.

**Sample:** Roasted coffee

**Sample Preparation:** 1 g of sample extracted in 100 mL ultrapure water (10 min ultrasonic treatment), filtration (0.45  $\mu\text{m}$ ) prior to injection

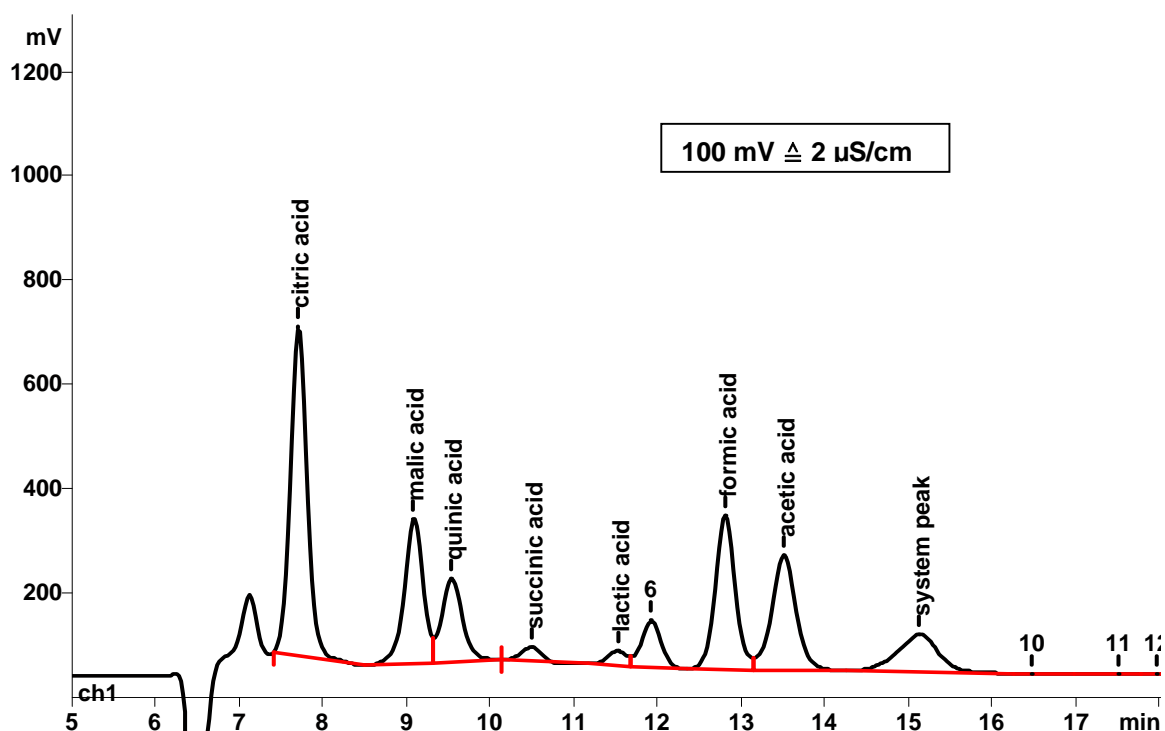
**Column:** 6.1005.200 Metrosep Organic Acids – 250

**Eluent:** 0.5 mmol/L sulfuric acid  
15% acetone

**Suppressor:** Metrohm Suppressor Module (MSM, 10 mmol/L LiCl)

**Flow:** 0.5 mL/min

**Injection Volume:** 20  $\mu\text{L}$



<b>Acids:</b>	Citric mg/L	Malic mg/L	Quinic mg/L	Succinic mg/L	Lactic mg/L	Formic mg/L	Acetic mg/L
	83.3	36.6	101	8.2	7.6	25.3	36.6