

IC Application Note No. S-164

Title: Five anions in orange juice

Summary: Determination of lactate, formate, chloride, phosphate and sulfate in orange juice using anion chromatography with conductivity detection after chemical suppression and inline sample preparation by dialysis.

Sample: Orange juice

Sample Preparation: Dilution 1:10 (by weight) with ultrapure water, injection using 754 Dialysis Unit

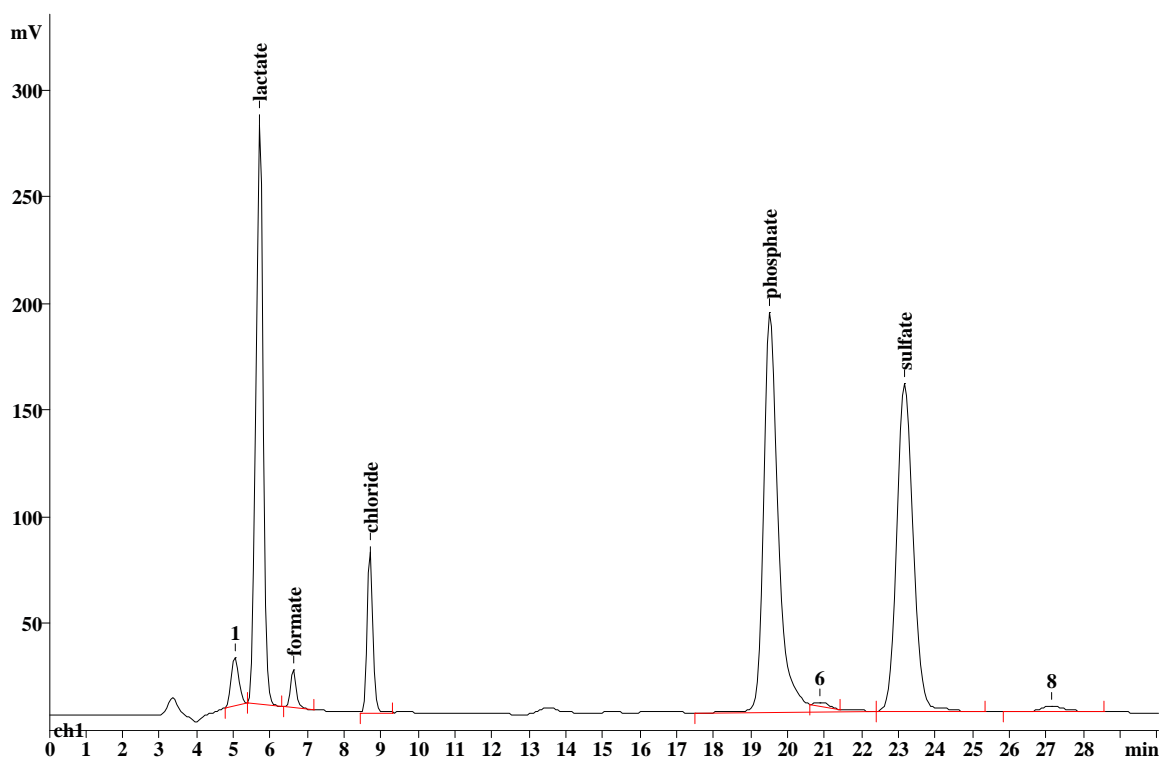
Column: 6.1006.530 Metrosep A SUPP 5 – 250

Eluent: 1.0 mmol/L sodium hydrogen carbonate
3.2 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 100 mmol/L H₂SO₄)

Flow: 0.7 mL/min

Injection Volume: 20 µL



Results:	Lactate mg/kg	Formate mg/kg	Chloride mg/kg	Phosphate mg/kg	Sulfate mg/kg
	1597	34.1	70.6	1890	464