

# IC Application Note No. S-12

**Title:** Determination of lactate, chloride, nitrate, sulfite and phosphate in wine

**Summary:** Determination of lactate, chloride, nitrate, sulfite and phosphate in wine using anion chromatography with conductivity detection after chemical suppression.

**Sample:** Swiss white wine „Fendant“

**Sample Preparation:** Dilution 1:50 with 0.2 mM NaOH containing formaldehyde for stabilisation of sulphite

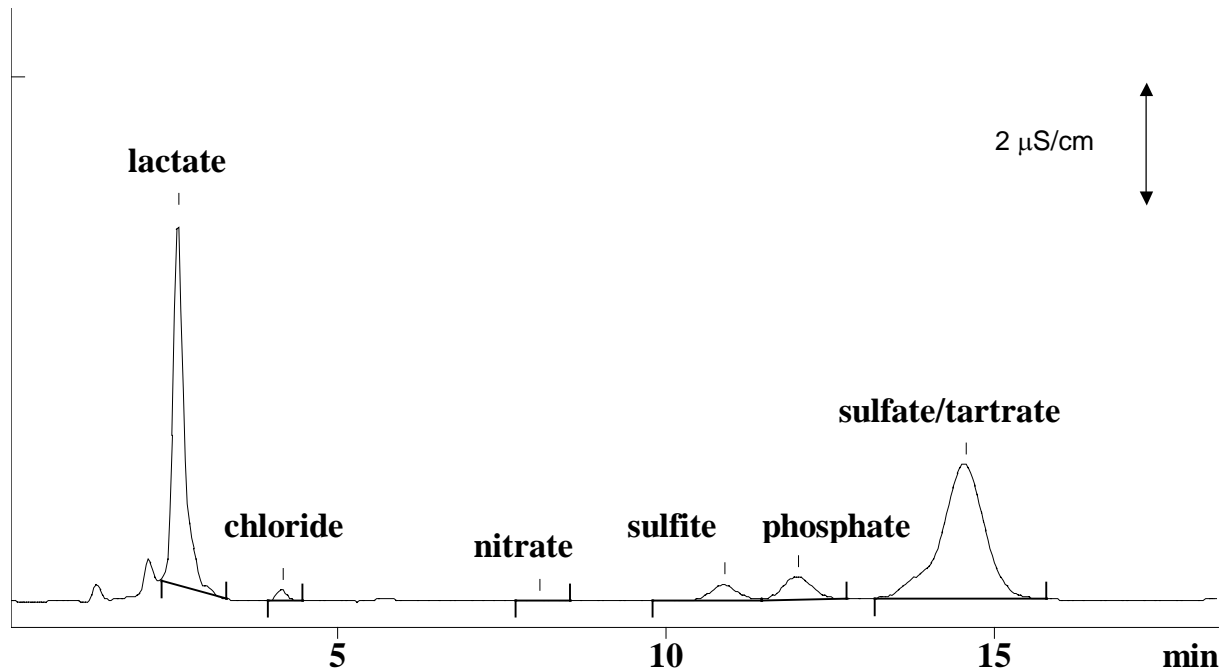
**Column:** 6.1006.100 Metrosep Anion Dual 2

**Eluent:** 2.0 mmol/L sodium hydrogencarbonate,  
1.8 mmol/L sodium carbonate, 15 % acetone

**Suppressor:** Metrohm Suppressor Module (MSM, 50 mmol/L H<sub>2</sub>SO<sub>4</sub>)

**Flow:** 0.8 mL/min

**Injection Volume:** 20 µL



<b>Results:</b>	lactate mg/L	chloride mg/L	nitrate mg/L	sulphite mg/L	phosphate mg/L
	2159	14.7	3.1	162.7	284.4