

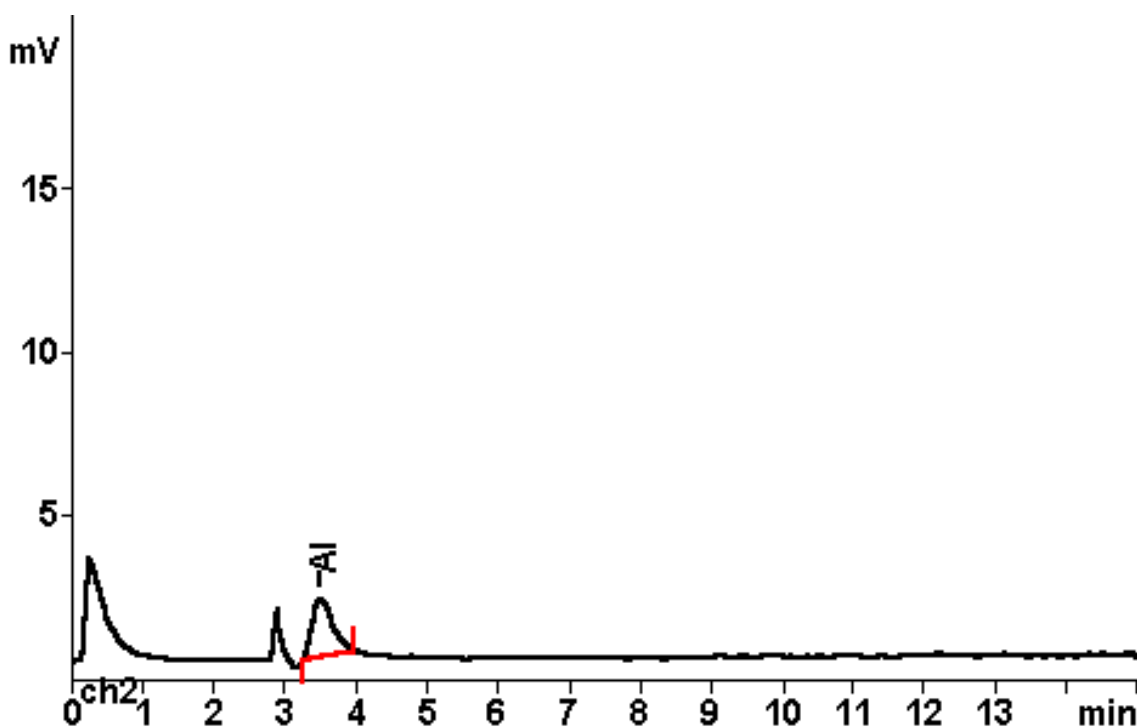
# IC Application Note No. C-51

**Title:** Determination of aluminum using post column reaction and UV detection

**Summary:** Determination of aluminum using cation chromatography, post column reaction and UV detection.

**Sample:** Standard solution  
**Sample Preparation:** A mixture of H<sub>2</sub>SO<sub>4</sub> / NH<sub>4</sub>SO<sub>4</sub> converts Al<sup>3+</sup> to AlSO<sub>4</sub><sup>+</sup> pre-concentration of 6 mL of sample solution

**Column:** 6.1010.230 Metrosep C 2-250  
**Eluent:** 5.6 mmol/L sulfuric acid, 30.0 mmol/L ammonium sulfate  
**Flow:** 1.0 mL/min  
**PCR-Detection:** 0.2 mmol/L pyrocatechol violet , 250 mmol/L sodium acetate, 250 mmol/L acetic acid: 570 nm



<b>Results:</b>	Aluminum µg/mL
	10.0