

# IC Application Note No. C-61

**Title:** Zinc and manganese besides standard cations in an extract of a zinc compound

**Summary:** Determination of zinc, sodium, ammonium and manganese besides magnesium and calcium in an extract of a zinc compound using cation chromatography with direct conductivity detection.

**Sample:** Extract of zinc ethylene-bis-thiocarbamate

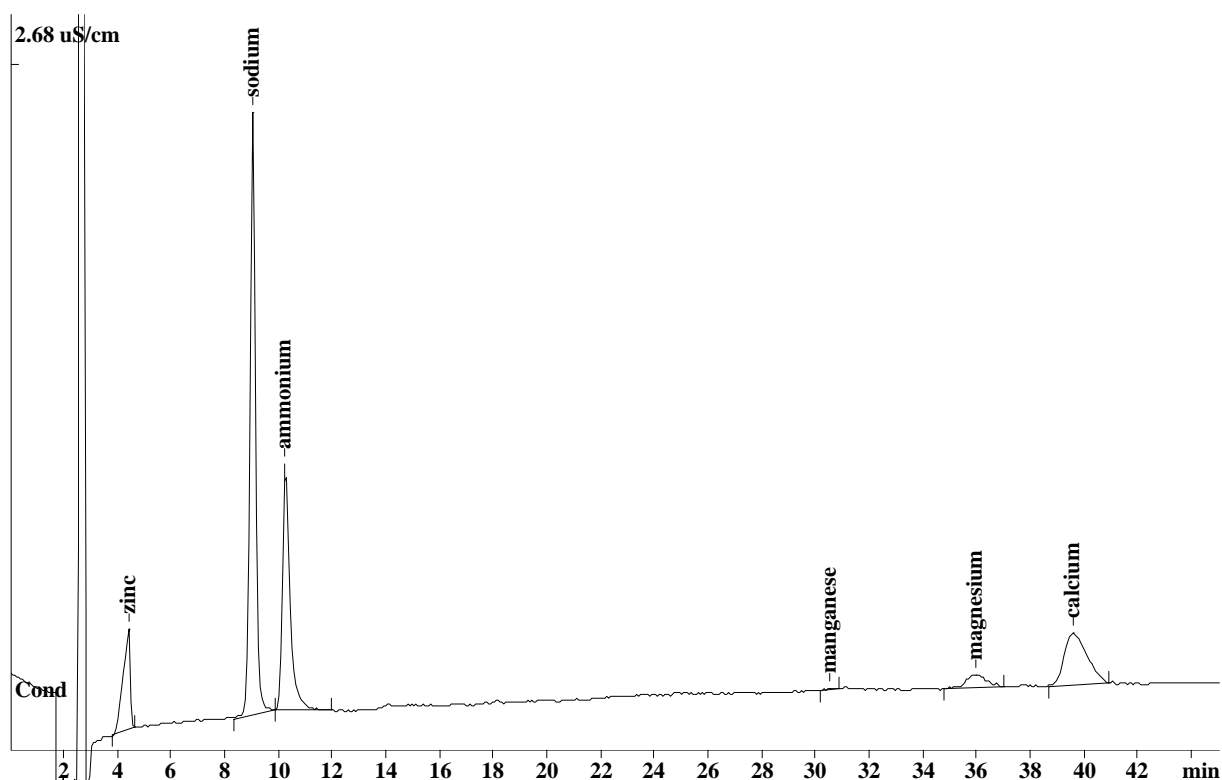
**Sample Preparation:** Dilution 1 : 10 with 2 mmol/L nitric acid

**Column:** 6.1010.230 Metrosep C 2 – 250

**Eluent:** 5.0 mmol/L tartaric acid,  
0.11 mmol/L dipicolinic acid

**Flow:** 1.0 mL/min

**Injection Volume:** 10  $\mu$ L



<b>Results:</b>	Zn <sup>2+</sup> mg/L	Na <sup>+</sup> mg/L	NH <sub>4</sub> <sup>+</sup> mg/L	Mn <sup>2+</sup> mg/L	Mg <sup>2+</sup> , Ca <sup>2+</sup>
*) spiked	5*	97.19	51.99	n.d.	n.q.