

# IC Application Note No. C-86

**Title:** Zinc and standard cations in infusion solutions

**Summary:** Determination of zinc, sodium, potassium, magnesium and calcium in an infusion solution using cation chromatography with direct conductivity detection.

**Sample:** Infusion solution containing amino acids

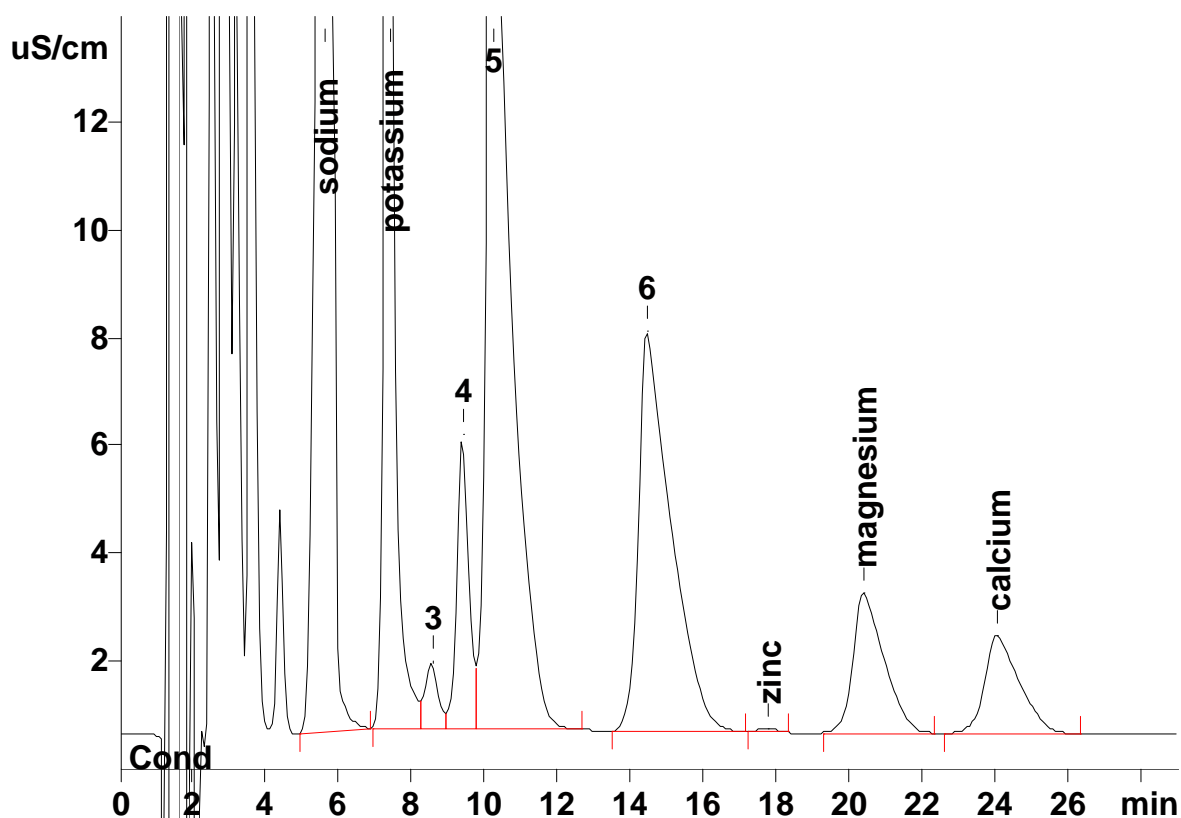
**Sample Preparation:** Dilution 1 : 20 in ultrapure water, adjusted to pH = 3

**Column:** 6.1010.100 Metrosep C 1

**Eluent:** 1.5 mmol/L nitric acid  
0.175 mmol/L oxalic acid, 5% acetone

**Flow:** 1.0 mL/min

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



<b>Results:</b>	Sodium mg/L	Potassium mg/L	Zinc mg/L	Magnesium mg/L	Calcium mg/L
	<b>2787</b>	<b>2314</b>	<b>12.3</b>	<b>334</b>	<b>250</b>