

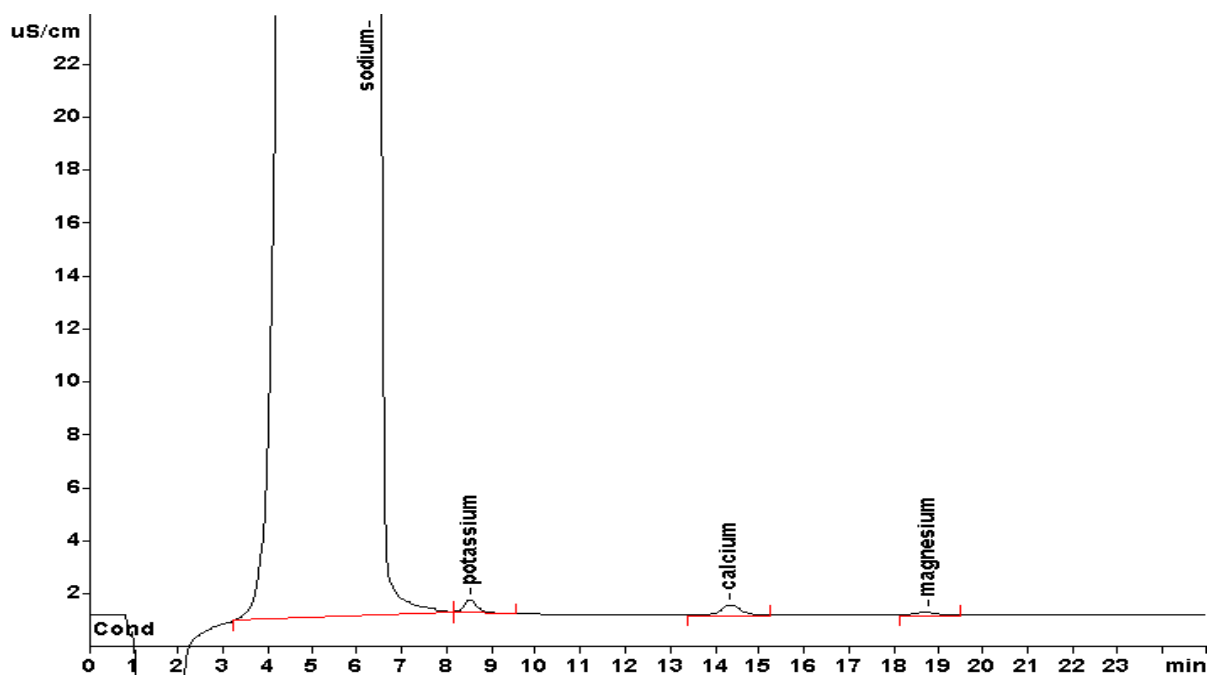
IC Application Note No. C-66

Title: Four cations in the water soluble fraction of a washing powder

Summary: Determination of sodium, potassium, calcium and magnesium in the water soluble fraction of a washing powder using cation chromatography with direct conductivity detection.

Sample: Water soluble fraction of a washing powder
Sample Preparation: 10 mg sample dissolved in 100 mL ultrapure water, acidification to pH = 2.5, injection after filtration (0.45 µm)

Column: 6.1010.220 Metrosep C 2 – 150
Eluent: 4.0 mmol/L tartaric acid,
 0.75 mmol/L dipicolinic acid
Flow: 1.0 mL/min
Injection Volume: 20 µL



Results:	Sodium g/kg	Potassium g/kg	Calcium g/kg	Magnesium g/kg
Water soluble fraction	278.1	0.41	0.57	0.10
Washing powder	195	0.29	0.40	0.07