

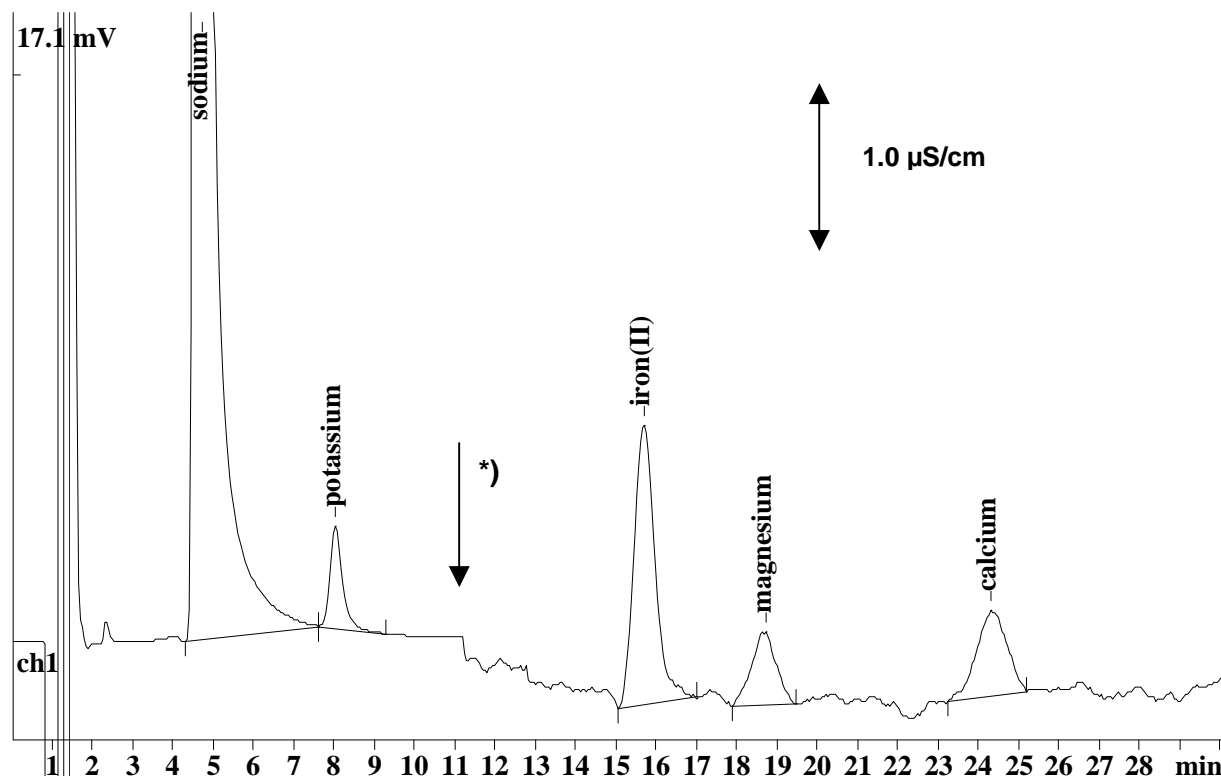
IC Application Note No. C-62

Title: Five cations including iron in monoethylene glycol (MEG)

Summary: Determination of sodium, potassium, iron(II), magnesium and calcium in an extract of monoethylene glycol using cation chromatography with direct conductivity detection.

Sample: Monoethylene glycol
Sample Preparation: 2 g of the filtered sample diluted to 20 g with 20 mmol/L ascorbic acid

Column: 6.1010.100 Metrosep Cation 1-2
Eluent: 5.0 mmol/L tartaric acid, 0.01 mmol/L dipicolinic acid, 3 mmol/L ascorbic acid
Flow: 1.0 mL/min
Injection Volume: 20 μ L



Results:	Sodium mg/kg	Potassium mg/kg	Iron (II) mg/kg	Magnesium mg/kg	Calcium mg/kg
	2230	17.4	2.68	0.41	1.02

*)At 11.2 min full scale change from 100 μ S/cm to 5 μ S/cm