

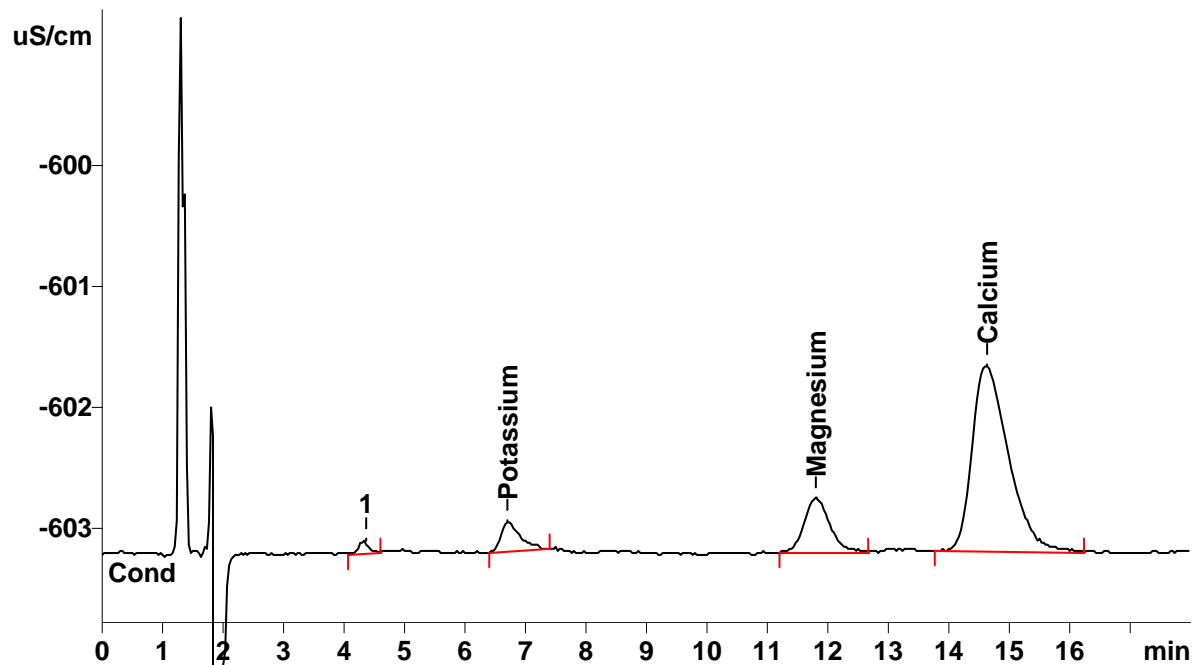
IC Application Note No. C-101

Title: Cations in biodiesel with fully automated aqueous extraction and subsequent dialysis

Summary: Determination of potassium, magnesium and calcium in biodiesel using cation chromatography with direct conductivity detection applying automated extraction and subsequent Metrohm Inline Dialysis.

Sample: Biodiesel
Sample Preparation: 1:1 mixture of sample and 2 mmol/L HNO₃, after phase separation, direct injection of the aqueous phase after Inline Dialysis

Column: 6.1010.220 Metrosep C 2 – 150
Eluent: 2.0 mmol/L nitric acid
 10% acetone
Flow: 1.0 mL/min
Injection Volume: 20 µL



Results:	Potassium mg/L	Magnesium mg/L	Calcium mg/L
	1.2	0.8	5.0

Schematic setup:

