

IC Application Note No. C-131

Title: Magnesium, cadmium and iron in phosphoric acid

Summary: Determination of magnesium, cadmium and iron in phosphoric acid using cation chromatography with direct conductivity detection.

Sample: Phosphoric acid

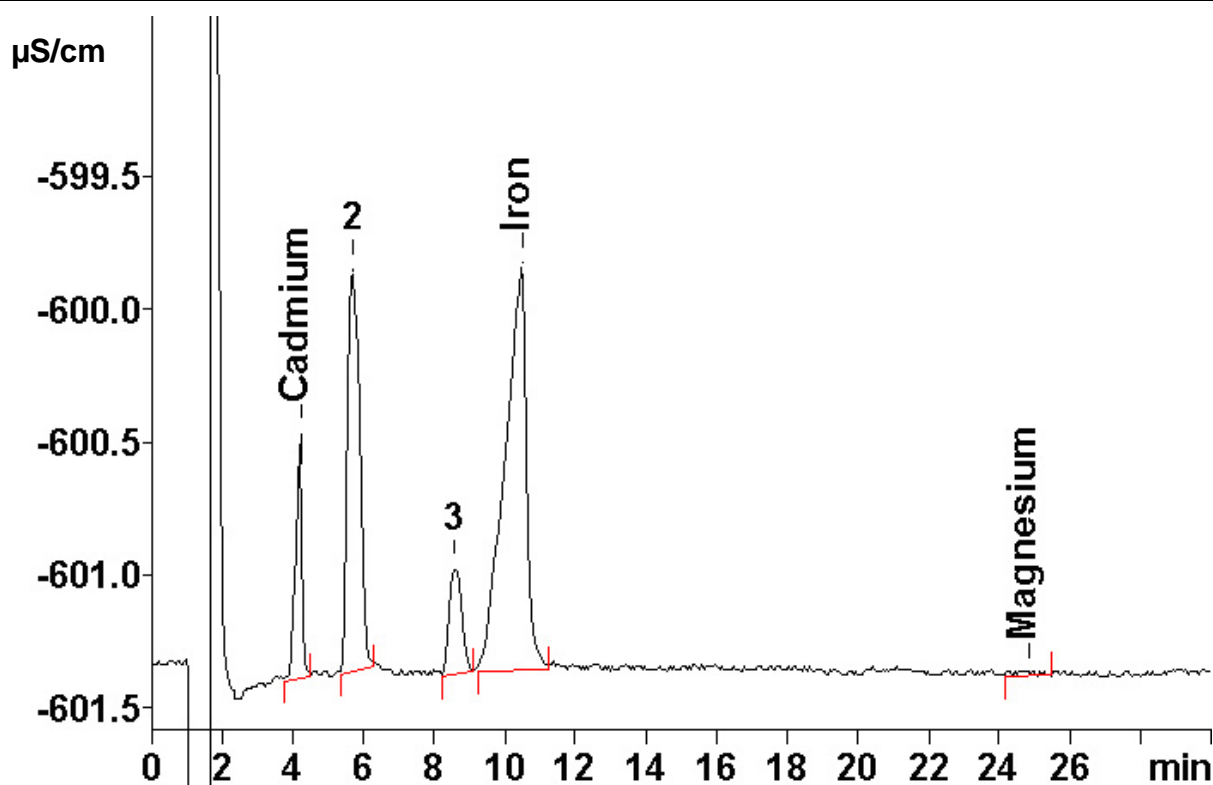
Sample Preparation: Dilution 1:1000 with ultrapure water

Column: 6.1050.420 Metrosep C 4 – 150

Eluent: 5.0 mmol/L tartaric acid, 0.09 mmol/L dipicolinic acid
2.0 mmol/L ascorbic acid

Flow: 0.9 mL/min

Injection Volume: 100 μ L



Results:	Cadmium mg/L	Iron(II) mg/L	Magnesium mg/L
	1341	2825	n.d.

Peaks 2 and 3 are not identified cations.