

# IC Application Note No. C-64

**Title:** Five cations in betain

**Summary:** Determination of sodium, ammonium, potassium, calcium and magnesium in betain using cation chromatography with direct conductivity detection.

**Sample:** Betain (technical solution for animal food)

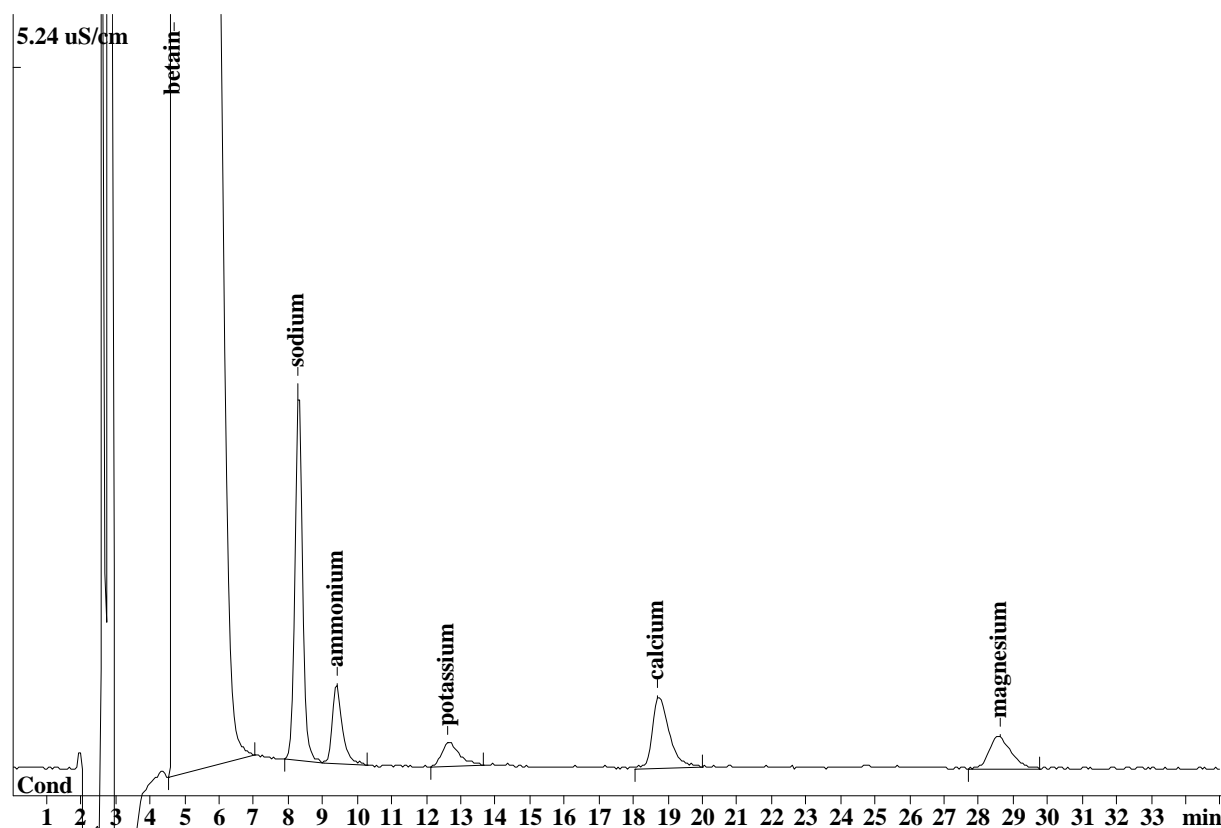
**Sample Preparation:** 1.025 g sample dissolved in 20 mL ultrapure water, acidification to pH = 2.5

**Column:** 6.1010.230 Metrosep C 2 – 250

**Eluent:** 4.0 mmol/L tartaric acid, 0.75 mmol/L dipicolinic acid, 7.5 % acetone

**Flow:** 1.0 mL/min

**Injection Volume:** 50 µL



<b>Results:</b>	Sodium mg/L	Ammonium mg/L	Potassium mg/L	Calcium mg/L	Magnesium mg/L
	56.7	17.4	21.9	28.0	8.56