

IC Application Note No. C-125

Title: Methylamines besides standard cations including cesium (Metrosep C 4 – 150)

Summary: Determination of monomethylamine (MMA), dimethylamine (DMA) and trimethylamine (TMA) besides lithium, sodium, ammonium, potassium, cesium, calcium and magnesium using cation chromatography with direct conductivity detection.

Sample: Standard solution

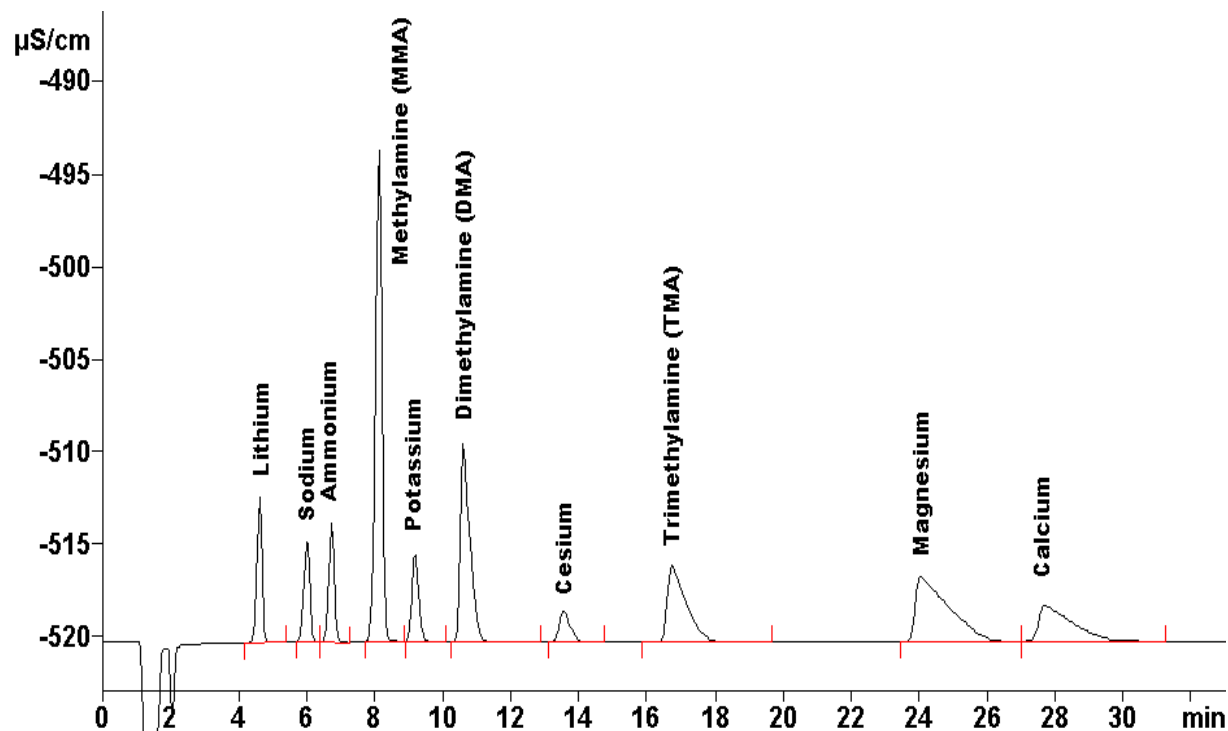
Sample Preparation: Acidification with 1 $\mu\text{L/mL}$ of 2 mmol/L nitric acid

Column: 6.1050.420 Metrosep C 4 – 150

Eluent: 1.7 mmol/L nitric acid, 0.15 mmol/L dipicolinic acid
3% acetone

Flow: 0.9 mL/min

Injection Volume: 20 μL



Results:	Li ⁺ mg/L	Na ⁺ mg/L	NH ₄ ⁺ mg/L	MMA mg/L	K ⁺ mg/L	DMA mg/L	Cs ⁺ mg/L	TMA mg/L	Mg ²⁺ mg/L	Ca ²⁺ mg/L
	2	5	5	30	10	30	20	30	10	10