

IC Application Note No. C-124

Title: Ethanolamines besides standard cations
(Metrosep C 4 – 150)

Summary: Determination of monoethanolamine (MEA), diethanolamine (DEA) and triethanolamine (TEA) besides lithium, sodium, ammonium, potassium, calcium and magnesium using cation chromatography with direct conductivity detection.

Sample: Standard solution

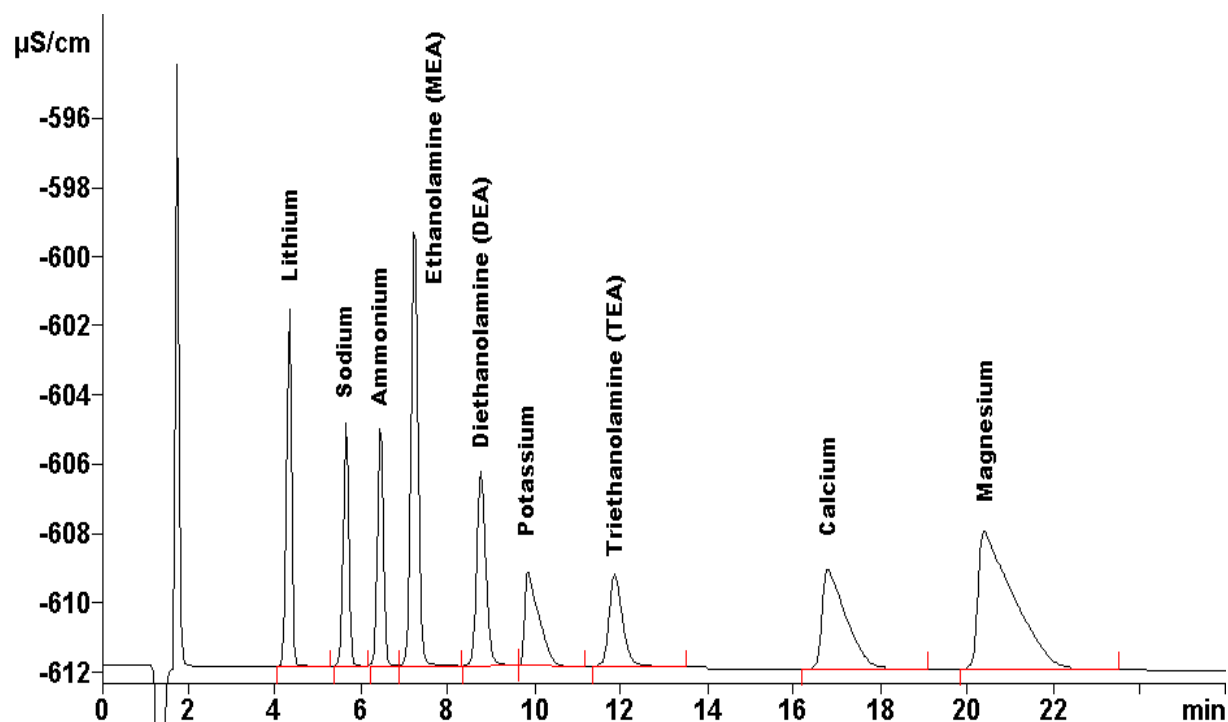
Sample Preparation: Acidification with 1 $\mu\text{L/mL}$ of 2 mmol/L nitric acid

Column: 6.1050.420 Metrosep C 4 – 150

Eluent: 1.7 mmol/L nitric acid, 0.7 mmol/L dipicolinic acid
0.05 mmol/L 18-Crown-6

Flow: 0.9 mL/min

Injection Volume: 20 μL



Results:	Li ⁺ mg/L	Na ⁺ mg/L	NH ₄ ⁺ mg/L	MEA mg/L	DEA mg/L	K ⁺ mg/L	TEA mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L
		2	5	5	30	30	10	30	10