

IC Application Note No. S-207

Title: Nitrate and phosphate in liquid fertilizers

Summary: Determination of nitrate and phosphate in a liquid fertilizer using anion chromatography with conductivity detection after chemical suppression.

Sample: Liquid fertilizer

Sample Preparation: Dilution 1 : 10'000, no digestion required

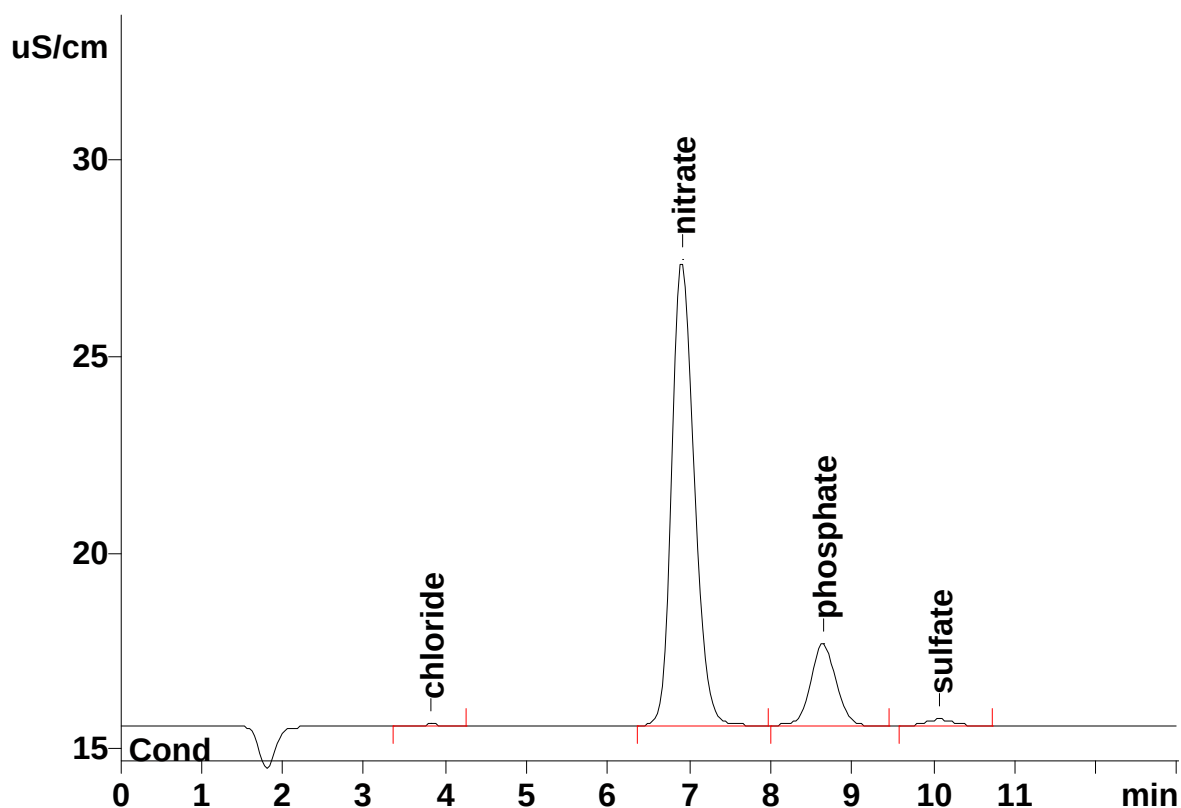
Column: 6.1006.510 Metrosep A Supp 5 – 100

Eluent: 3.2 mmol/L sodium carbonate
1.0 mmol/L sodium hydrogencarbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L sulfuric acid)

Flow: 0.7 mL/min

Injection Volume: 20 μ L



Results:	Chloride	Nitrate	Phosphate	Sulfate
%	n.q.	6.62	2.18	n.q.

See AN C-84 for the determination of cations in liquid fertilizers.