

IC Application Note No. S-172

Title: Phosphite in a potato extract

Summary: Determination of phosphite besides chloride, nitrate, bromide, nitrate and sulfate in a potato extract using anion chromatography with conductivity detection after chemical suppression and inline sample preparation by dialysis.

Sample: Potato extract

Sample Preparation: Dilution 1:5 with ultrapure water, injection using 754 Dialysis Unit

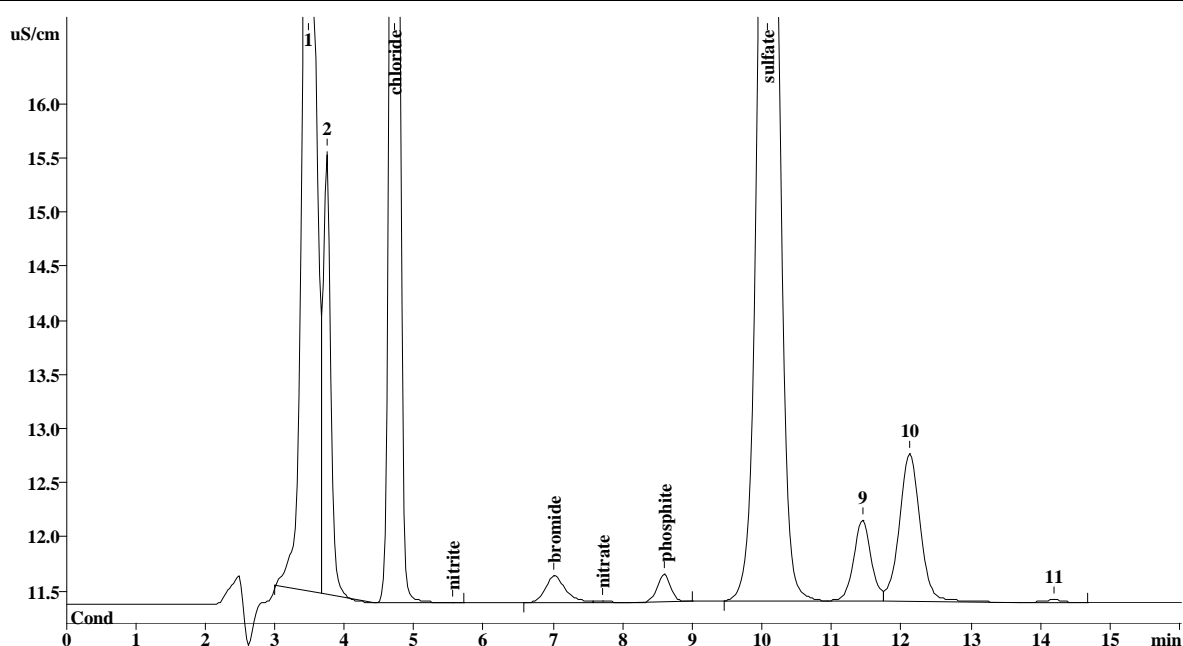
Column: 6.1006.520 Metrosep A SUPP 5 – 150

Eluent: 4.0 mmol/L sodium carbonate
3.0 mmol/L sodium hydroxide, 10% acetone

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H₂SO₄)

Flow: 0.7 mL/min

Injection Volume: 20 µL



Results:	Phosphite mg/L	Chloride, nitrite, bromide, nitrate, sulfate	Peaks 9, 10, 11
	10.96	Not quantified	Not identified