

IC Application Note No. S-205

Title:	Traces of perchlorate in samples with a high
	ionic background applying heart-cut technique

Summary: Determination of traces of perchlorate in a sample with a high salt load using anion chromatography with conductivity detection after chemical suppression.

Sample: Standard solution containing 1 g/L of chloride, carbonate and

sulfate each

Sample Preparation: Preseparation on system 1, loading the eluent containing the

perchlorate onto a preconcentration column (Metrosep A PCC HC) on system 2 and running the final chromatogram

System 1 / System 2

Column: 6.1006.520 Metrosep A Supp 5 – 150

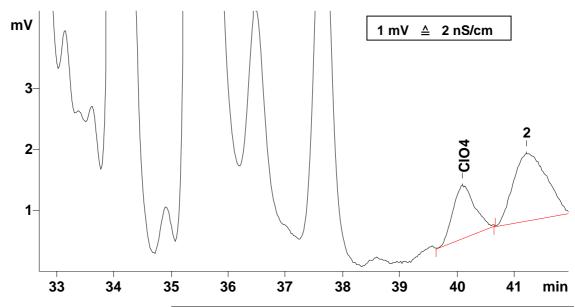
Eluent: 10 mmol/L sodium carbonate, 15% acetone

Suppressor: Metrohm Suppressor Module (MSM, 100 mmol/L sulfuric

acid)

Flow: 0.8 mL/min

Injection Volume: 3.5 mL (System 1) / 15 to 26 min (System 2)



Results:	Perchlorate μg/L
	0.1



System setup:

