IC Application Note No. S-217

Title: Ultratrace-level perchlorate in reagent water, ground water, surface water and water containing 3000 ppm of total dissolved solids (USEPA method 314.0)

Summary:	Determination of perchlorate in water containing 3 g/L of total dissolved solids (TDS) using anion chromatography with conductivity detection after chemical suppression.
Sample:	Water containing 1000 ppm each of chloride, carbonate and sulfate
Sample Preparation:	Direct injection after inline ultrafiltration
Column:	6.1016.020 Metrosep Dual 4 – 50 (monolithic column)
Eluent:	5 mM LiOH, 12 mM cyanophenol
Suppressor:	Metrohm Suppressor Module (MSM, 100 mmol/L nitric acid, 1% acetonitrile)
Flow:	1.75 mL/min
Injection Volume:	750 μL

