

IC Application Note No. S-161

Title: Detection limits of bromate in drinking water

Summary: Determination of the method detection limit (MDL) and method quantification limit (MQL) of bromate in drinking water using anion chromatography with conductivity detection after chemical suppression.

Sample: Drinking water

Sample Preparation: –

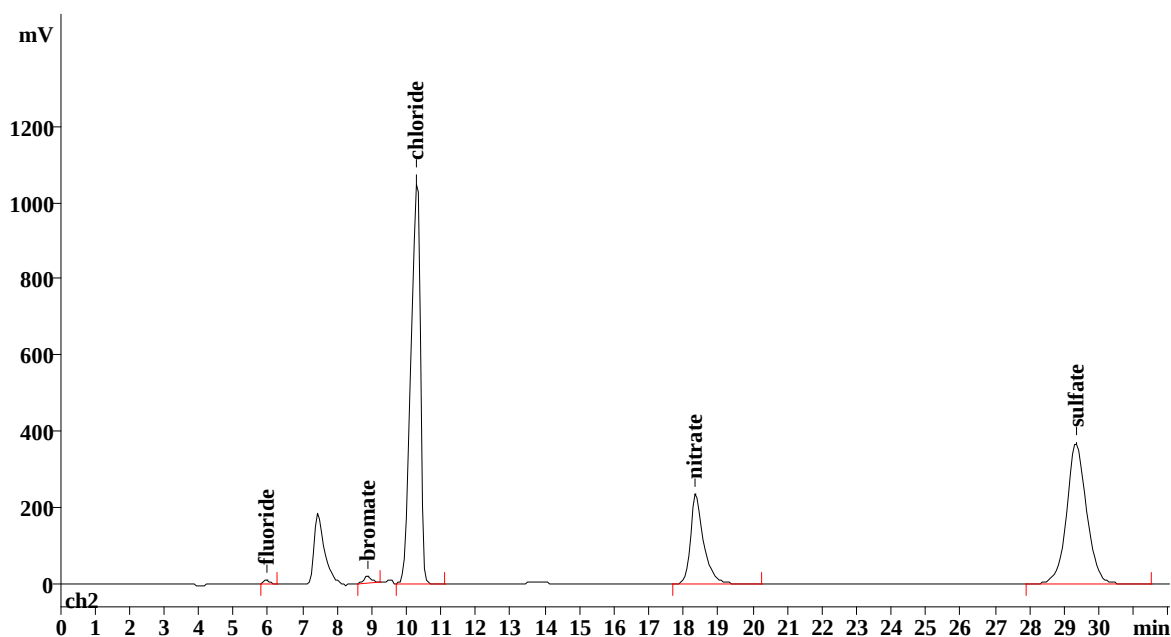
Column: 6.1006.530 Metrosep A SUPP 5 – 250
6.1005.340 Metrosep A SUPP 1 Guard

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

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

Flow: 0.7 mL/min

Injection Volume: 100 µL



Results:	Fluoride µg/L	Bromate µg/L	Chloride mg/L	Nitrate mg/L	Sulfate mg/L
Mean (n=15)	117.8	4.275	26.12	16.30	27.12
MDL		0.44			
MQL		1.30			