

IC Application Note No. S-159

Title: Arsenic and selenium speciation using «High-Low Detection»

Summary: Determination of arsenite, arsenate, selenite, selenate, chloride and sulfate using anion chromatography with a combination of suppressed and non-suppressed conductivity detection.

Sample: Standard solution

Sample Preparation: –

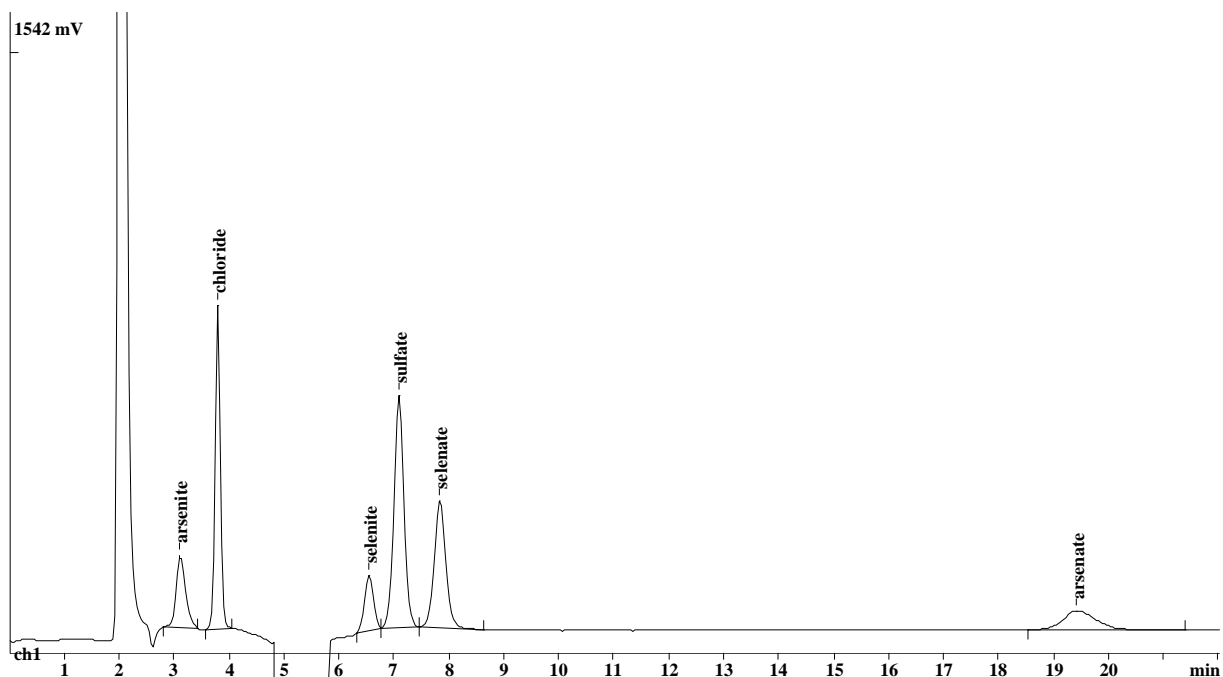
Column: 6.1006.520 Metrosep A SUPP 5 – 150

Eluent
15 mmol/L sodium hydroxide
2.0 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 100 mmol/L H₂SO₄)

Flow: 0.7 mL/min

Injection Volume: 20 µL



Results:	Arsenite, chloride, selenite, sulfate, selenate, arsenate mg/L
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Remarks: Arsenite and chloride were determined without chemical suppression. For the other anions the suppressor was switched in after 4.7 minutes.