

# IC Application Note No. S-191

<b>Title:</b>	<b>Chloride, nitrite and sulfate in a used zinc bath containing cooling lubricants</b>
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<b>Summary:</b>	Determination of chloride, nitrite and sulfate in a used zinc bath using anion chromatography with conductivity detection after chemical suppression.
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<b>Sample:</b>	Used zinc plating bath containing cooling lubricants
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<b>Sample Preparation:</b>	Dilution 1 : 50 with ultrapure water and subsequent injection through IC-RP cartridge to remove the cooling lubricant
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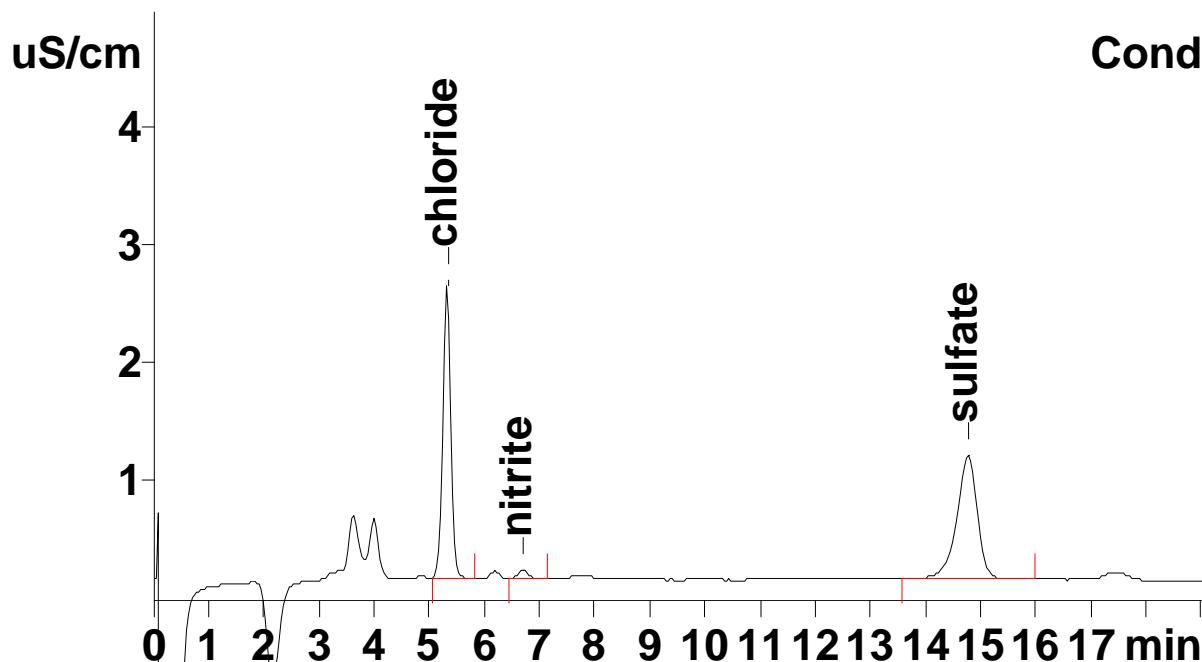
**Column:** 6.1006.520 Metrosep A Supp 5 – 150

**Eluent:** 3.2 mmol/L sodium carbonate  
1.0 mmol/L sodium hydrogencarbonate

**Suppressor:** Metrohm Suppressor Module (MSM, 50 mmol/L sulfuric acid)

**Flow:** 0.8 mL/min

**Injection Volume:** 20 µL



<b>Results:</b>	Chloride mg/L	Nitrite mg/L	Sulfate mg/L
	112.0	8.02	195.0