

IC Application Note No. S-41

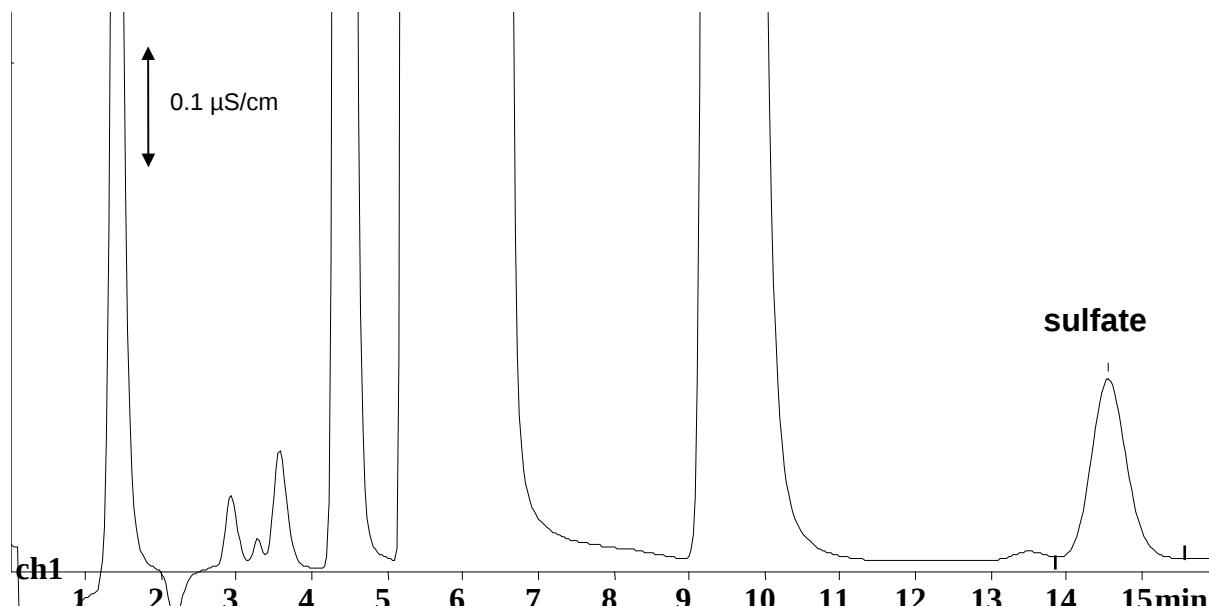
Title:	Sulfate in diesel engine coolant using dialysis as sample preparation
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Summary:	Determination of sulfate in diesel engine coolant using anion chromatography with conductivity detection after chemical suppression and dialysis as sample preparation.
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Sample:	Coloured diesel engine coolant (dyestuff leads to column fouling)
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Sample Preparation:	Dilution 1 : 10 with ultrapure water, direct injection using 754 Dialysis Unit (other methods did not work)
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Column:	6.1006.100 Metrosep Anion Dual 2
Eluent:	2.0 mmol/L sodium hydrogencarbonate, 1.3 mmol/L sodium carbonate
Suppressor:	Metrohm Suppressor Module (MSM, 50 mmol/L H ₂ SO ₄)
Flow:	0.8 mL/min
Injection Volume:	20 µL after dialysis



Results:	sulfate mg/L
	9.04