

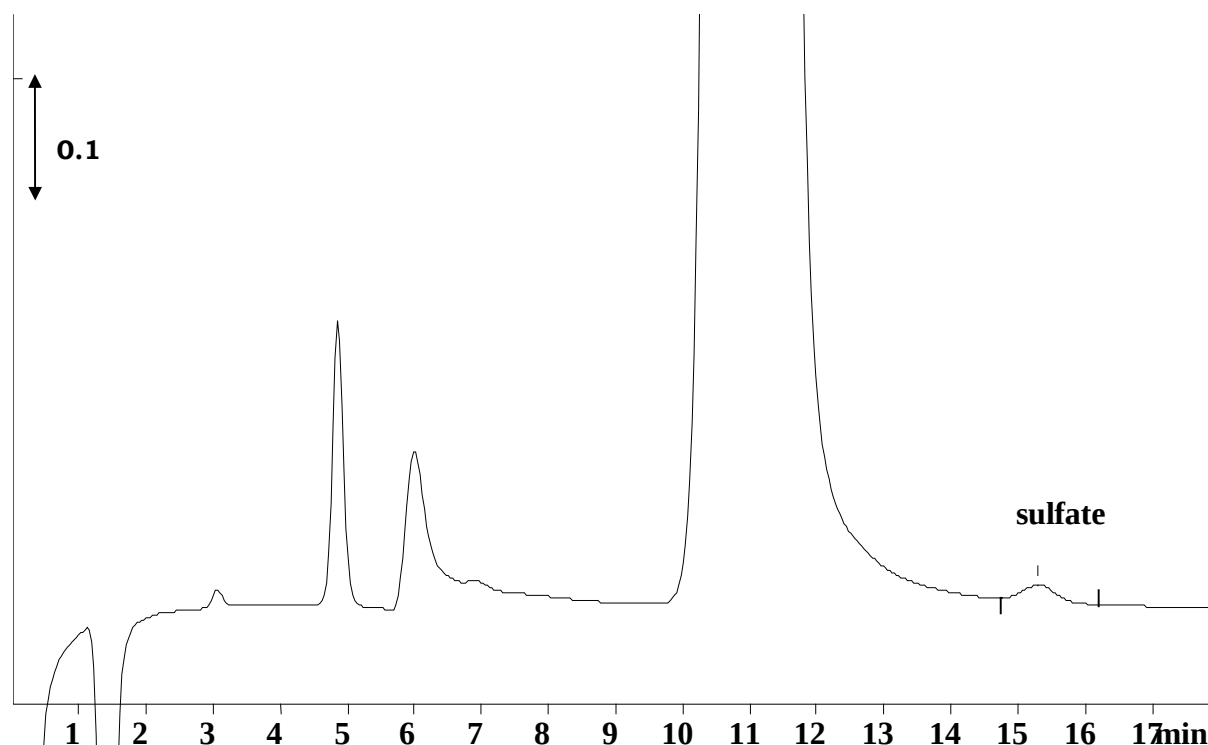
IC Application Note No. S-35

Title:	Sulfate in waste water after combustion
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Summary:	Determination of sulfate in waste water after nitric acid combustion using anion chromatography with conductivity detection after chemical suppression.
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Sample:	Industrial waste water
Sample Preparation:	Combustion with 200 g/L HNO ₃ at 220 °C, dilution 1 : 500

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



Results:	Sulfate (in Waste Water) mg/L	Sulfate (injected) mg/L
	105	0.063