

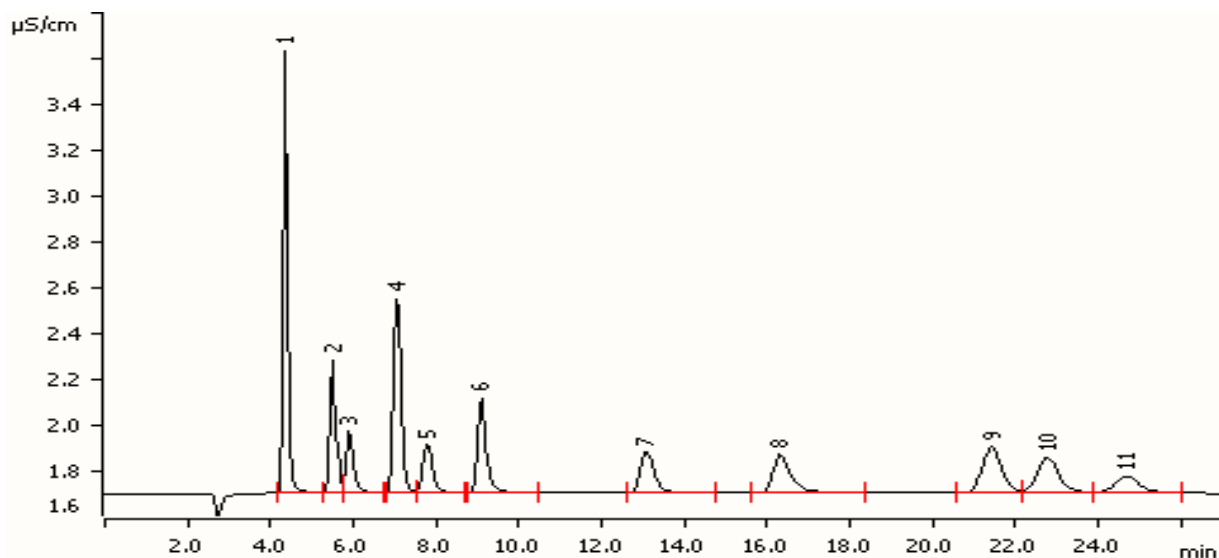
# IC Application Note No. S-258

**Title:** Eleven anions separated on the Metrosep A Supp 16 – 250 column

**Summary:** Determination of fluoride, formate, acetate, chloride, methylsulfonate (MSA), nitrite, bromide, nitrate, sulfate, oxalate and phosphate using anion chromatography with conductivity detection after chemical suppression.

**Sample:** Standard solution  
**Sample Preparation:** None

**Column:** 6.1031.430 Metrosep A Supp 16 – 250  
**Eluent:** 7.5 mmol/L sodium carbonate  
 0.75 mol/L sodium hydroxide  
**Suppressor:** Sequential suppression: MSM (100 mmol/L H<sub>2</sub>SO<sub>4</sub>), MCS  
**Flow:** 1.0 mL/min  
**Column temperature:** 55°C  
**Injection Volume:** 20 µL



<b>Results:</b>	F <sup>-</sup> (1) mg/L	Formate (2) mg/L	Acetate (3) mg/L	Cl <sup>-</sup> (4) mg/L	MSA (5) mg/L	NO <sub>2</sub> <sup>-</sup> (6) mg/L
	1.0	1.0	1.0	1.0	1.0	1.0

<b>Results:</b>	Br <sup>-</sup> (7) mg/L	NO <sub>3</sub> <sup>-</sup> (8) mg/L	SO <sub>4</sub> <sup>2-</sup> (9) mg/L	Oxalate (10) mg/L	PO <sub>4</sub> <sup>3-</sup> (11) mg/L
	1.0	1.0	1.0	1.0	1.0