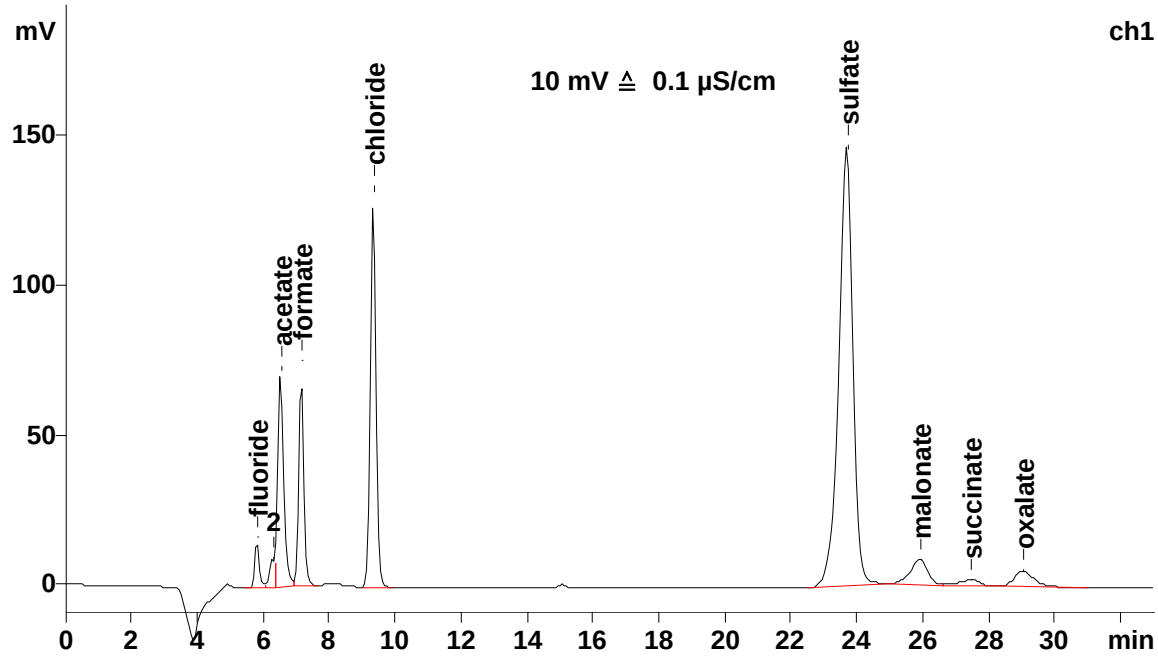
IC Application Note No. S-252

Title:	**Standard anions and organic acids in Bayer liquor applying Inline Matrix Neutralization**

***Summary*:**	Determination of fluoride, acetate, formate, chloride, sulfate, malonate, succinate and oxalate in Bayer liquor using anion chromatography with conductivity detection after sequential suppression.

Sample:	Bayer liquor
Sample Preparation:	Dilution 1:100 and subsequent Inline Matrix Neutralization

Column:	6.1006.630 Metrosep A Supp 7 – 250
Eluent:	3.6 mmol/L sodium carbonate 2% acetone
Suppressor:	Sequential suppression: MSM (100 mmol/L H_2SO_4), MCS
Sample Prep Module:	500 mmol/L perchloric acid (aluminum removal)
Flow:	0.8 mL/min ***Temperature:*** 45 °C
Injection Volume:	5 µL



Results:	Fluoride	Acetate	Formate	Chloride	Sulfate	Malonate	Succinate	Oxalate
Diluted (mg/L)	**0.37**	**9.15**	**3.73**	**5.68**	**22.89**	**3.90**	**1.94**	**2.13**
RSD n=50 (%)	**4.83**	**0.39**	**0.58**	**0.20**	**0.67**	**1.11**	**1.18**	**1.08**

Schematic setup: