

IC Application Note No. S-224

Title: Sulfate in gentamicin sulfate

Summary: Determination of sulfate in gentamicin sulfate applying anion chromatography with conductivity detection after chemical suppression.

Sample: Gentamicin sulfate (SIGMA no. G1264)

Sample Preparation: Direct injection of 20 mg/L solution

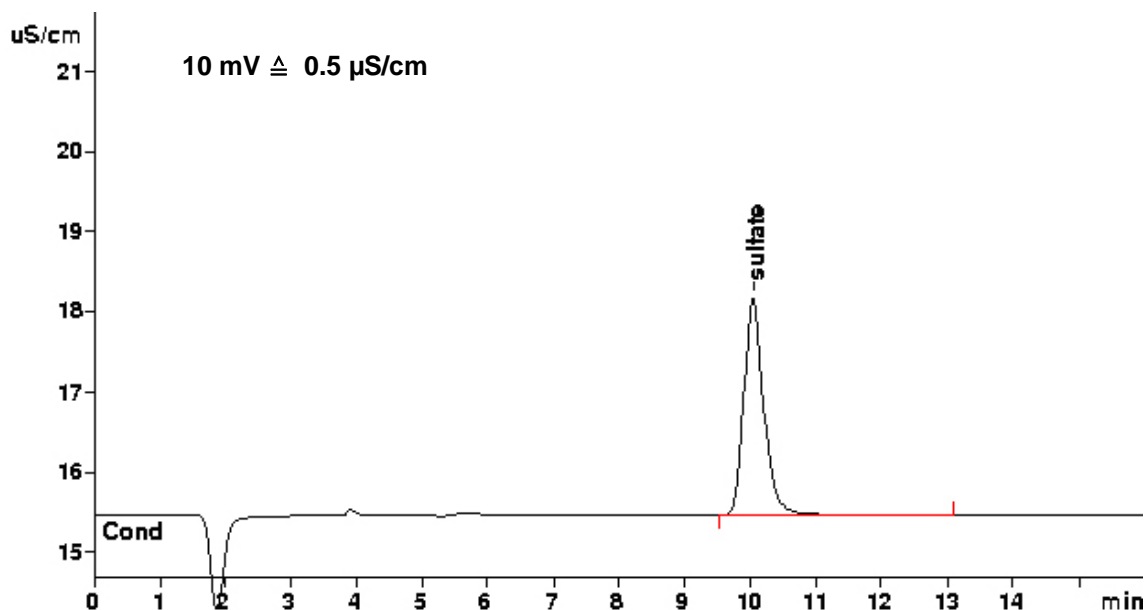
Column: 6.1006.510 Metrosep A Supp 5 – 100

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

Suppressor: Metrohm Suppressor Module (MSM, 100 mmol/L sulfuric acid)

Flow: 0.7 mL/min

Injection Volume: 20 μ L



Results:

	Sulfate
Mean (n = 6)	6.01 mg/L
Relative standard deviation (%)	0.10
Content in %	33.3 %

See Application Note P-32 for the determination of gentamicin in gentamicin sulfate.