

# IC Application Note No. P-37

**Title:** Gentamicin sulfate with pulsed amperometric detection

**Summary:** Determination of gentamicin sulfate applying pulsed amperometric detection after post-column addition of NaOH.

**Sample:** Gentamicin sulfate samples

**Sample Preparation:** 25 mg sample dissolved in 50 mL eluent

**Column:** Polymer Laboratories PLRP-S 250x4.6

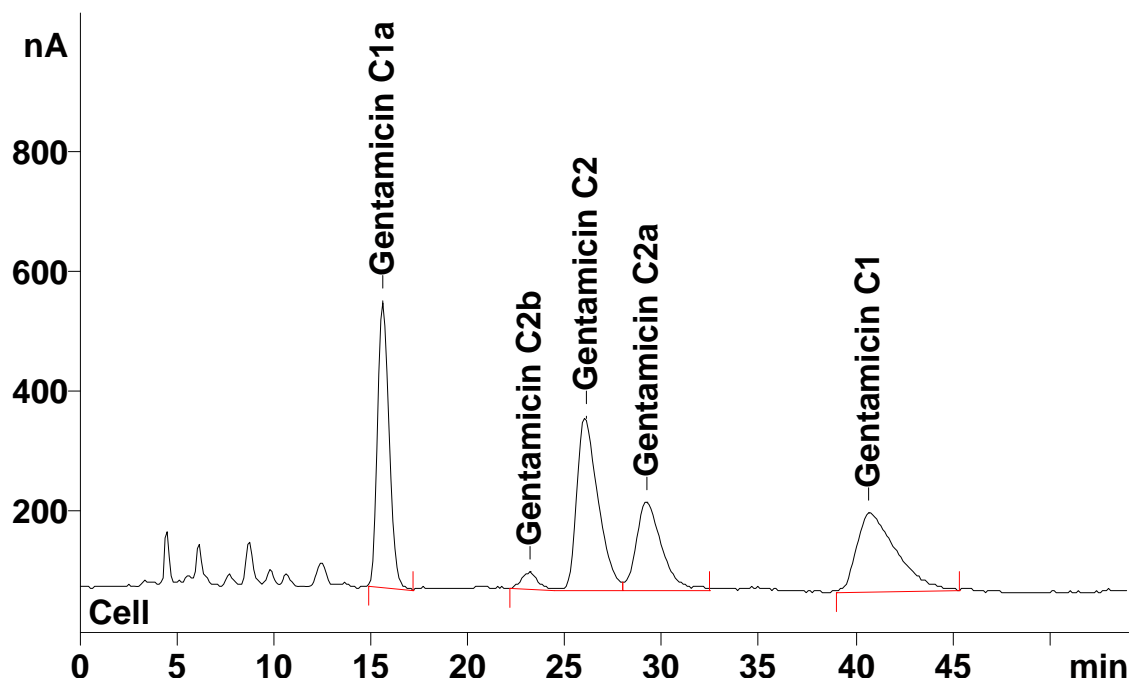
**Eluent:** 60 g/L anhydrous sodium sulfate R,  
1.75 g/L sodium octanesulfonate R,  
1.34 g/L sodium dihydrogen phosphate R,  
8 ml/L THF R; pH=3 with diluted H<sub>3</sub>PO<sub>4</sub> R

**Flow:** 1.0 mL/min

**PCR Reagent:** 300 mmol/L sodium hydroxide **Flow:** 0.4 mL/min

**Voltage:** 50 mV **Temperature:** 55 °C

**Injection Volume:** 20 µL



<b>Results:</b>	C1a	C2b	C2	C2a	C1
Area-%	26.62	2.32	29.25	17.14	24.68
RSD (% , n = 4)	0.76	2.92	0.79	1.54	0.54