Supporting Information

Study of post separation pH adjustment by microchip for analysis of aminoglycoside

antibiotics

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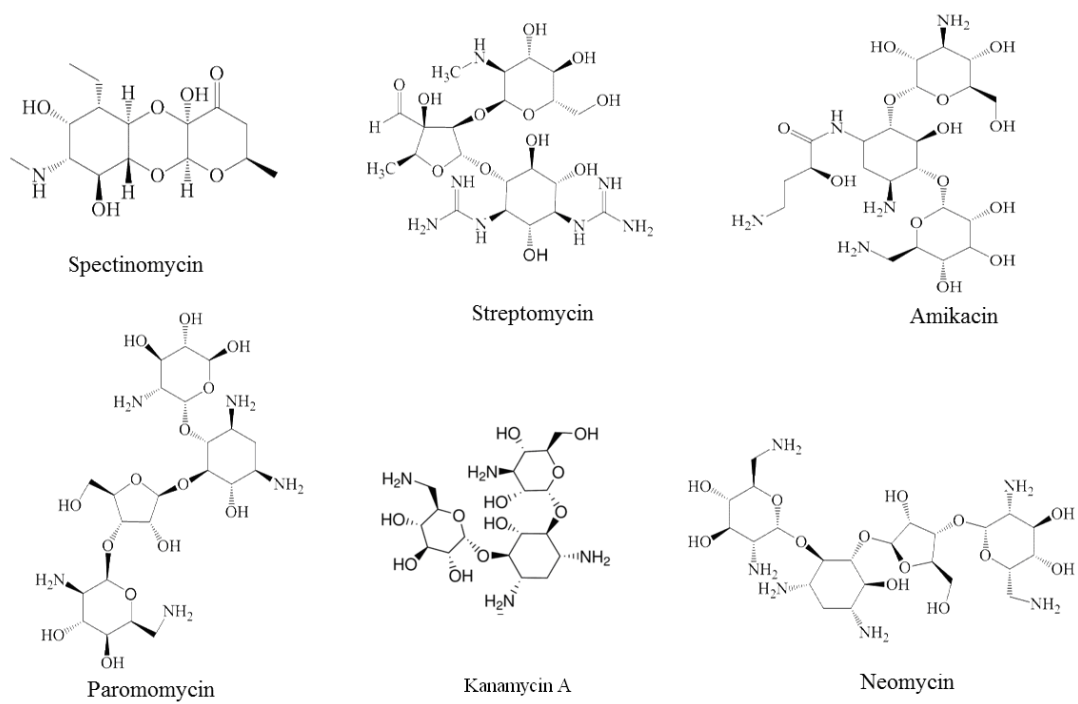3 School of Physics, University of Chinese Academy of Sciences, Beijing 100049, China

Figure S-1. Molecular structures of the selected AMGs

Table S-1. Analytical parameters (linear range, slope, R^2, and limit of detection) corresponding to the calibration curves obtained for the selected AGs

AMG	Linear range (μM)	Slope (nA/μM)	R^2	Limit of detection (μM)	Stability (n=30) RSD % of t_m / I_p
SPE	1.0 – 100	0.216	0.997	0.5	1.1 / 3.5
STR	1.0 – 100	0.482	0.995	0.2	1.4 / 4.8
AMI	1.0 – 100	0.497	0.991	0.2	1.9 / 5.1
KAN A	2.0 – 100	0.295	0.995	0.5	2.6 / 5.6
PAR	2.0 – 100	0.296	0.992	0.5	2.8 / 6.1
NEO	2.0 – 100	0.208	0.996	2.0	3.0 / 6.2

t_m = migration time; I_p = peak current