Electrochemiluminescence Detection of Melamine with Electropolymerized Poly(sulfosalicylic acid)/Ru(bpy)$_3^{2+}$ Modified Electrode

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In this paper, a PSA/Ru(bpy)$_3^{2+}$ modified electrode was prepared by electrochemical polymerization and used as the working electrode in ECL detection of melamine. Under the optimal conditions, the sensor shows a wide linear range of $1.0\times10^{-7}$ ~ $1.0\times10^{-5}$ mol/L, detection limit of $2.5\times10^{-8}$ mol/L with good reproducibility and stability. The method is expected to be a new method for the detection of melamine, which is simple and convenient.

**Keywords:** ECL; Poly-sulfosalicylic acid; Ru(bpy)$_3^{2+}$; melamine

FULL TEXT

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