

**Nitrate enhanced electrochemiluminescence determination of
tris(2,3-dibromopropyl) isocyanurate with a gold
nanoparticles-modified gold electrode**

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Supporting Information

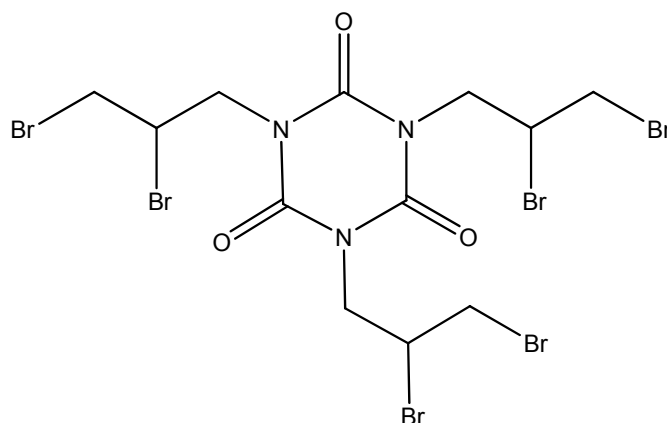


Fig. S1 Chemical structure of Tris(2,3-dibromopropyl) isocyanurate (TBC).

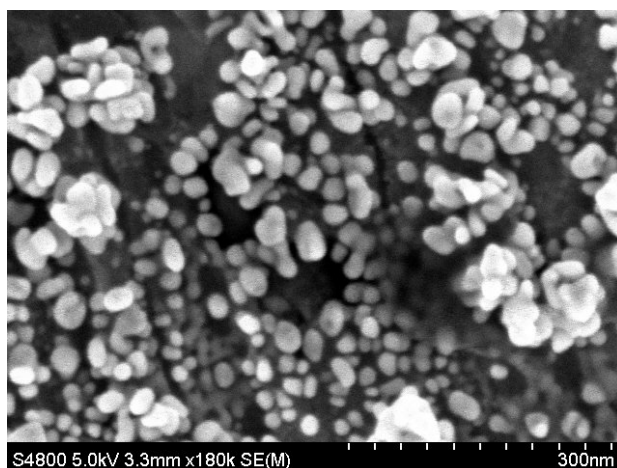


Fig. S2 FESEM image of gold nanoparticles electrodeposited on the Au electrode surface by cyclic voltammetry between 0 V and 1.1 V for 2 cycles in 0.5 M H₂SO₄ with 0.77 mM HAuCl₄.

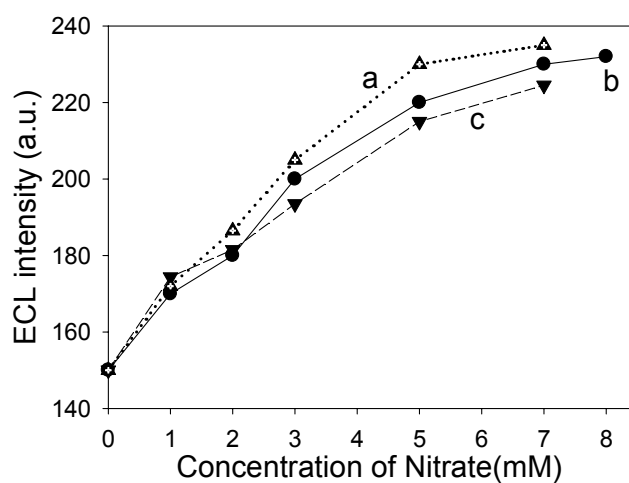


Fig. S3 Effect of NH₄NO₃ (a), AgNO₃ (b), and KNO₃ (c) concentration of 3.0×10^{-5} M TBC, 0.8 mM Ru(bpy)₃Cl₂, and 0.1 M NaClO₄ in MeCN at AuNPs-modified Au electrode.

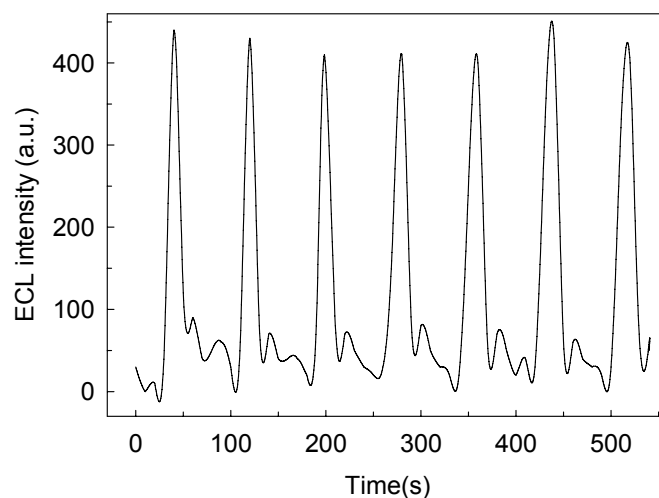


Fig. S4 Successive cyclic ECL curves of AuNPs modified gold electrode in the sample containing 0.1 M NaClO₄, 0.8 mM Ru(bpy)₃Cl₂, and 7 mM AgNO₃. Scan rate, 100 mV/s.

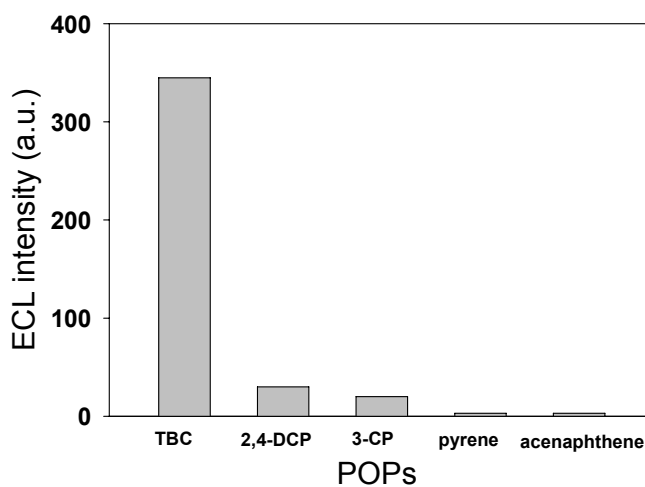


Fig. S5 ECL intensities of 5.0×10^{-5} M TBC, 5.0×10^{-5} M 2,4-dichlorophenol (2,4-DCP), 5.0×10^{-5} M 3-chlorophenol (3-CP), 5.0×10^{-5} M pyrene and 5.0×10^{-5} M acenaphthene as coreactants with Ru(bpy)₃²⁺ at AuNPs-modified Au electrode. Scan rate, 50 mV/s.