

Supplementary Information

Electrogenerated chemiluminescence of tris(2,2'-bipyridine)ruthenium(II) using common biological buffers as co-reactant, pH buffer and supporting electrolyte

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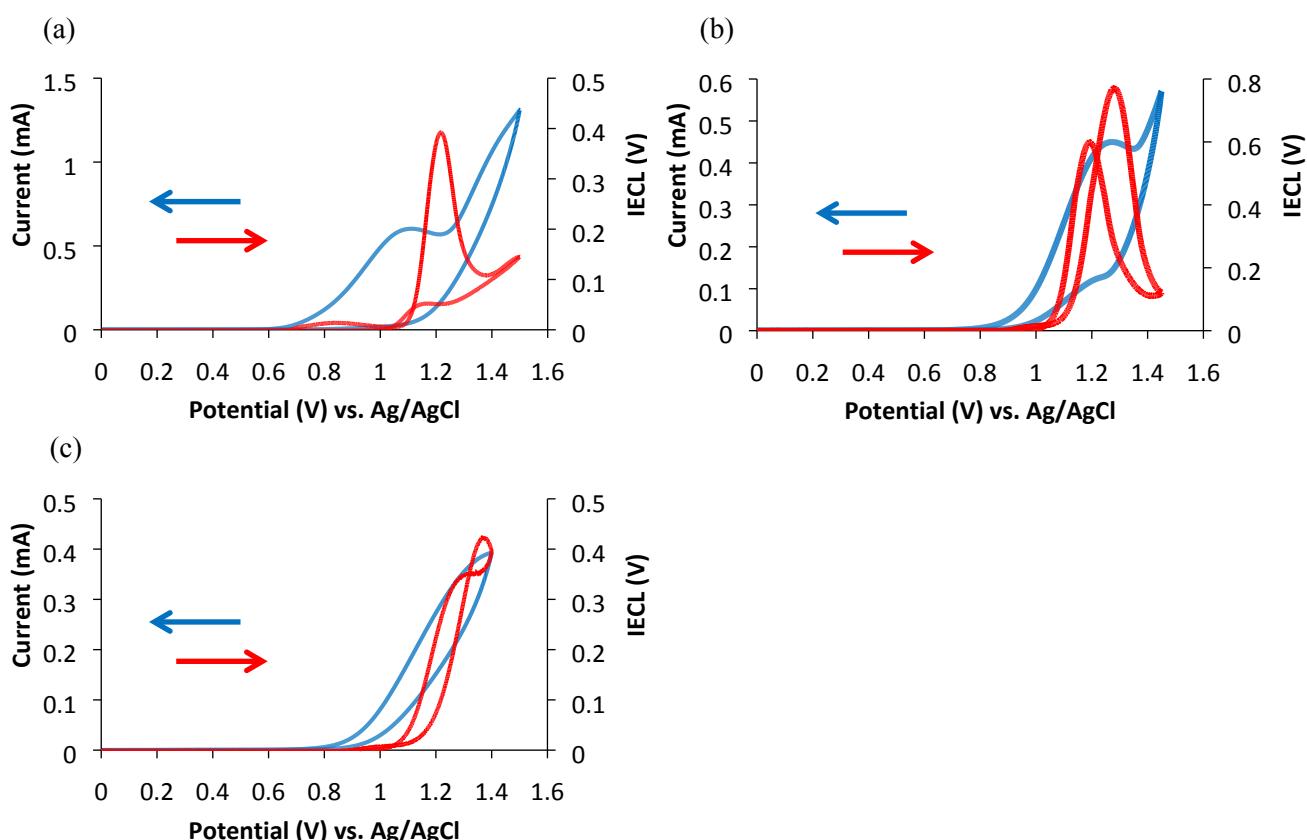


Figure S1. Cyclic voltammogram of the generated current (blue) and the corresponding ECL intensity (red) from the $1 \mu\text{M} [\text{Ru}(\text{bpy})_3]^{2+}/0.1 \text{ M}$ Buffer system, obtained at a scan rate of 0.05 V/s . **(a)** POPSO sesquisodium salt; **(b)** HEPES sodium salt; **(c)** EPPS

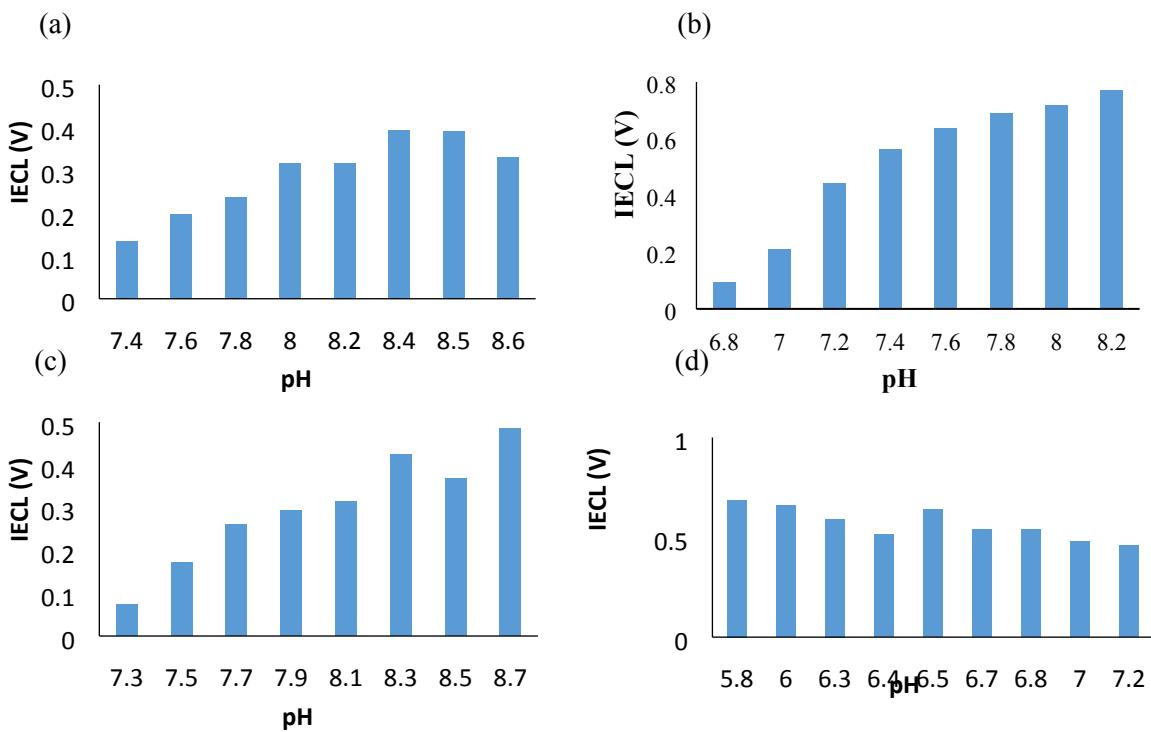


Figure S2. Peak ECL intensities generated from $1 \mu\text{M} [\text{Ru}(\text{bpy})_3]^{2+}/0.1 \text{ M}$ biological buffer, obtained through cyclic voltammetry at a scan rate of 0.05 V/s within the useful pH range of each buffer used in the study: **(a)** POPSO sesquisodium salt; **(b)** HEPES sodium salt; **(c)** EPPS; **(d)** BIS-TRIS hydrochloride

Keywords: electrogenerated chemiluminescence; electrochemiluminescence; ruthenium, ‘Good’ buffer; co-reactant