

RAPID COMMUNICATION

Fluorescein-*N*-Methylimidazole Conjugate as Cu²⁺ Sensor in Mixed Aqueous Media Through Electron Transfer

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Fluorescence Spectroscopy <paper review>

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Helal et al. synthesized a fluorescein probe with fluorescein hydrazine and N-methylimidazole. Due to the electron-donating capability of imidazole, makes the probe to produce a green fluorescence emission at 535 nm and specific selection for copper. Cu^{2+} being a paramagnetic cationic species, quenches the fluorescence of the probe upon binding, inhibiting the electron transfer (ET) between the fluorescein and imidazole.

