

Supporting Information

Metal and pH-Dependent Aptamer Binding of Tetracyclines Enabling Highly Sensitive Fluorescence Sensing

Yichen Zhao, Biwen Gao, Peihuan Sun, Jiawen Liu, and Juewen Liu *

Department of Chemistry, Waterloo Institute for Nanotechnology, Water Institute, University of Waterloo, Waterloo, ON, N2L 3G1, Canada

* Correspondence: liujw@uwaterloo.ca

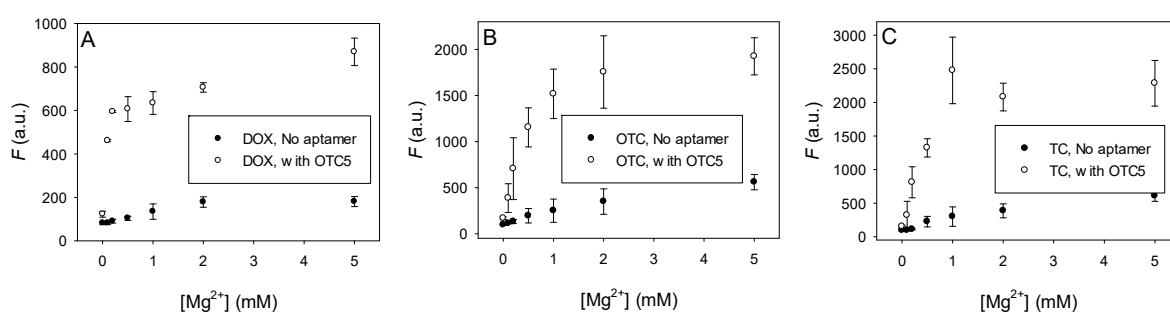


Figure S1. The fluorescence intensity of 100 nM (A) DOX, (B) OTC, and (C) TC alone and with 2 μ M of the OTC5 aptamer with increasing concentration of Mg^{2+} in 10 mM MES, pH 6.0 with 50 mM NaCl.

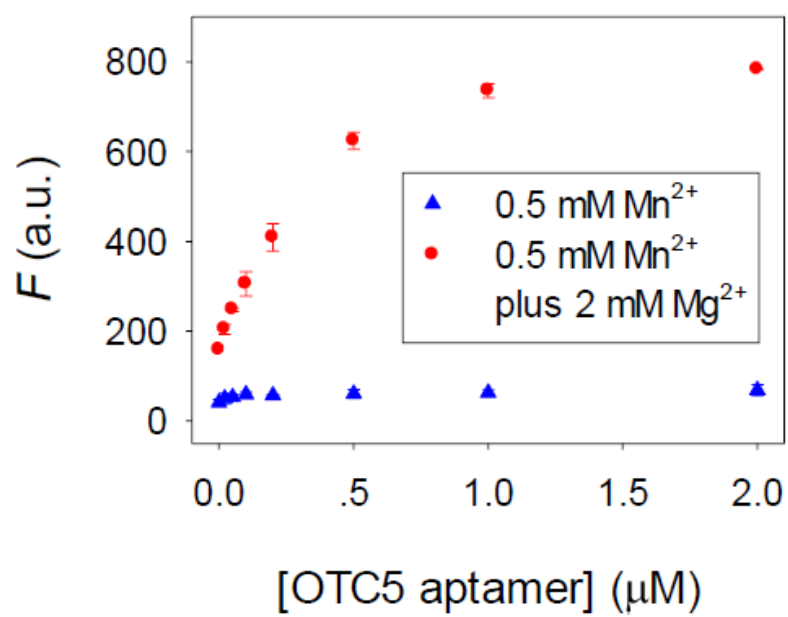


Figure S2. The fluorescence of 100 nM OTC as a function of OTC5 aptamer concentration in 0.5 mM Mn²⁺ alone and with 0.5 mM Mn²⁺ and 2 mM Mg²⁺ mixture. The buffer was 10 mM MES, pH 6.0 with 100 mM NaCl.