Results

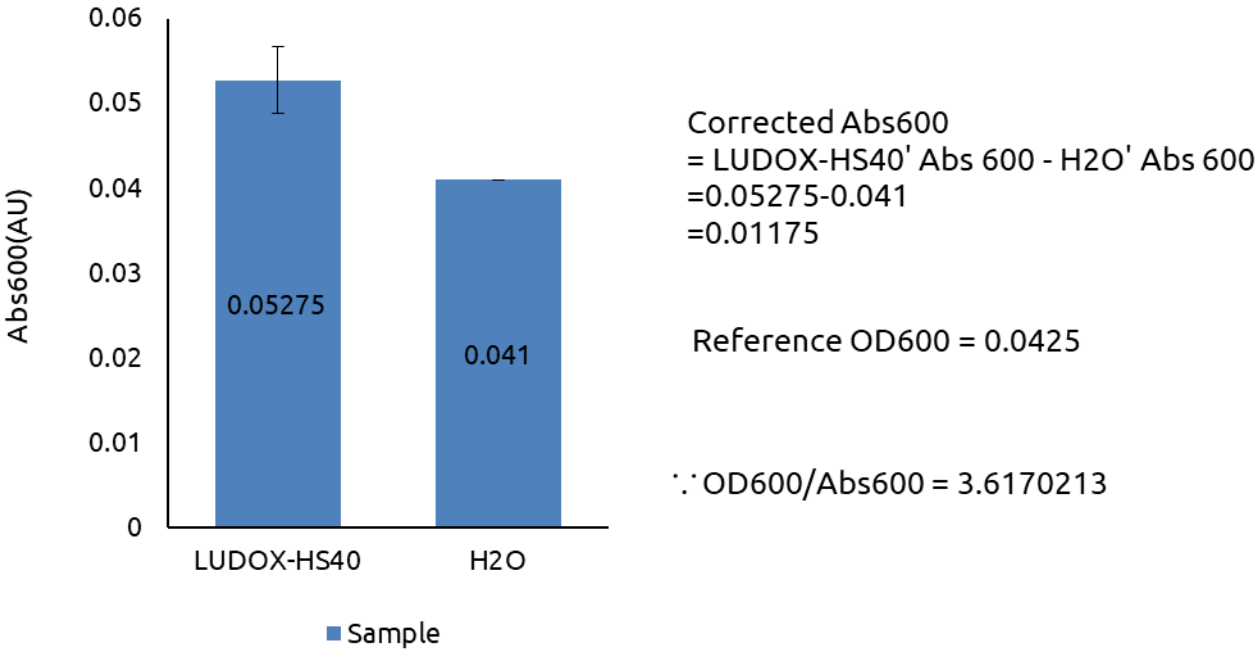

Figure 1. OD600 Reference point. A single point reference generated by measuring the OD 600 of LUDOX-S40, and we could obtain a ratiometric conversion factor to transform our absorbance data into a standard OD600 measu

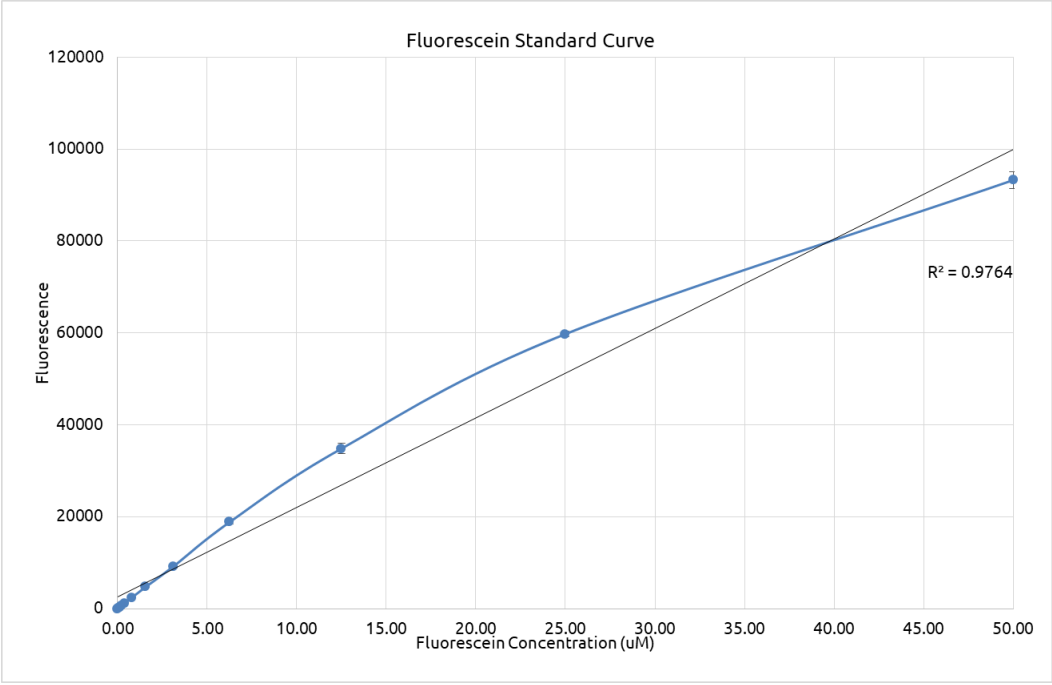

Figure 2. A standard curve by measuring the fluorescence of serial dilutions of fluorescein (provided in kit) (uM). There is a linear trend for increased fluorescence as fluorescein increases (Fluorescein Standard Curve: R^2=0.9764). We used light at 515nm wavelength as emission, and light at 460 nm wavelength as excitation.

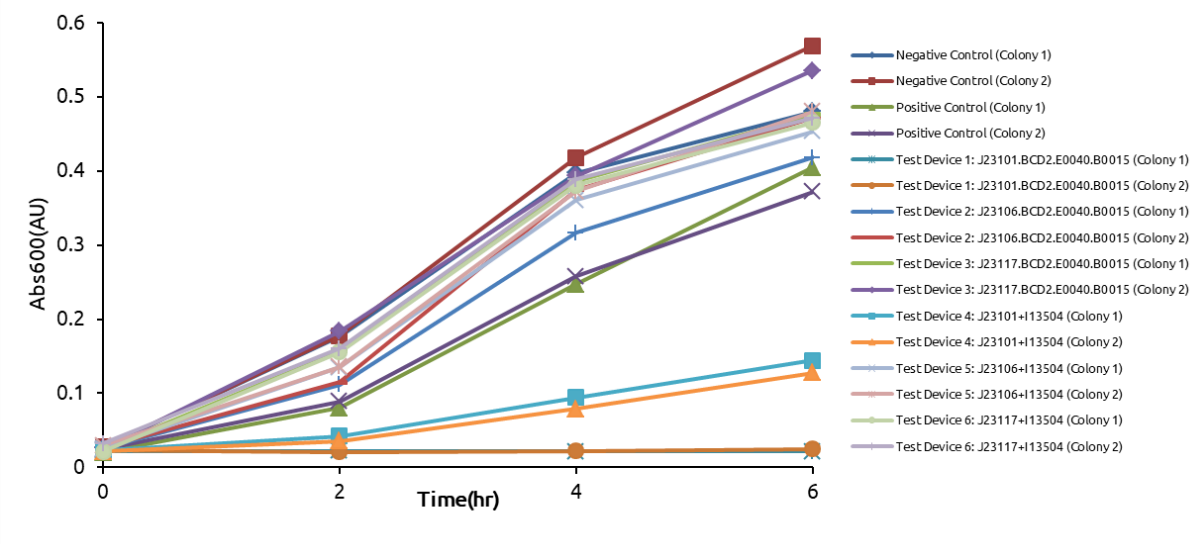

Figure 3. The OD600 of the six test devices and both controls transformed into E.coli DH5-α and inoculated in LB broth was measured every other hour over a 6-hour period.

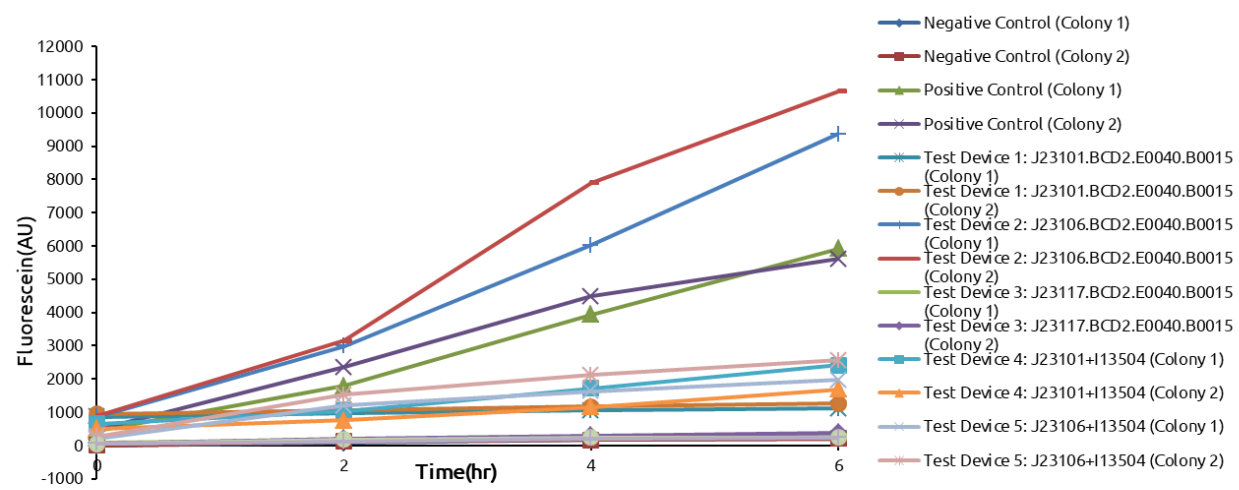

Figure 4. The fluorescence of the six test devices and both controls transformed into E.coli DH5-α and inoculated in LB broth was measured every other hour over a 6-hour period.

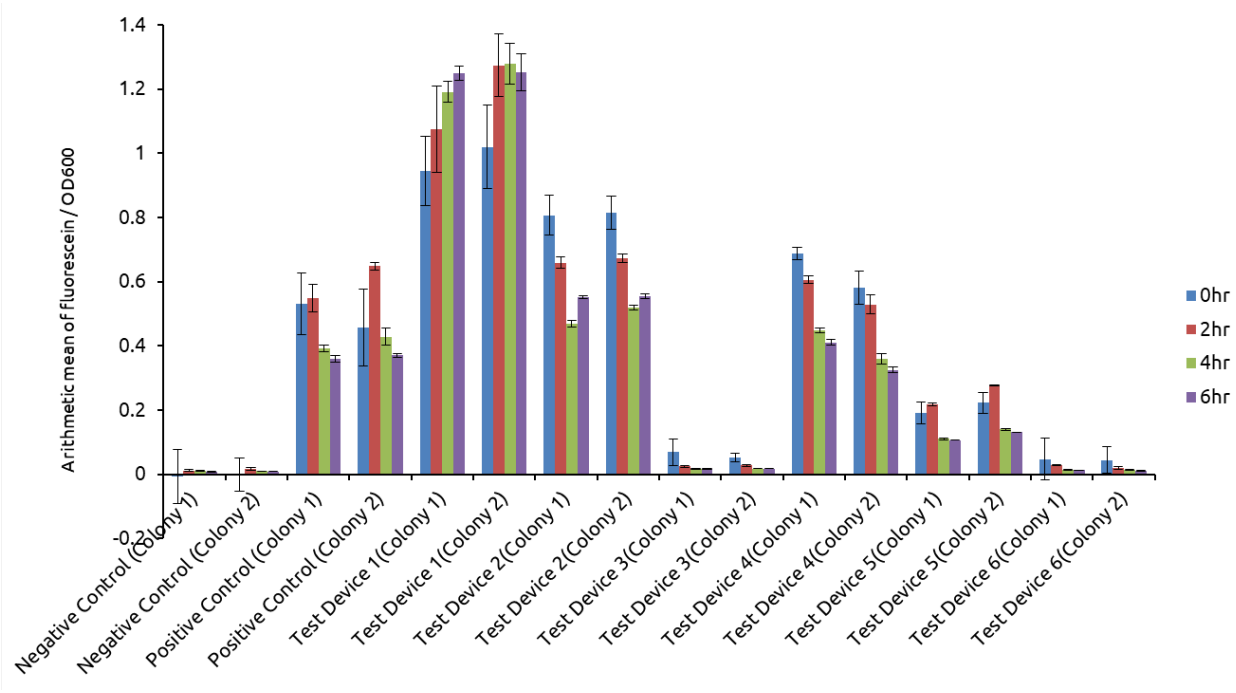

Figure 5. The fluorescence readings for each test device or control was corrected for absorbance for each hour reading. In general, the ratio decreased over time for all samples.