

Supplementary Material: Magnetic Particle Plug-Based Assays for Biomarker Analysis

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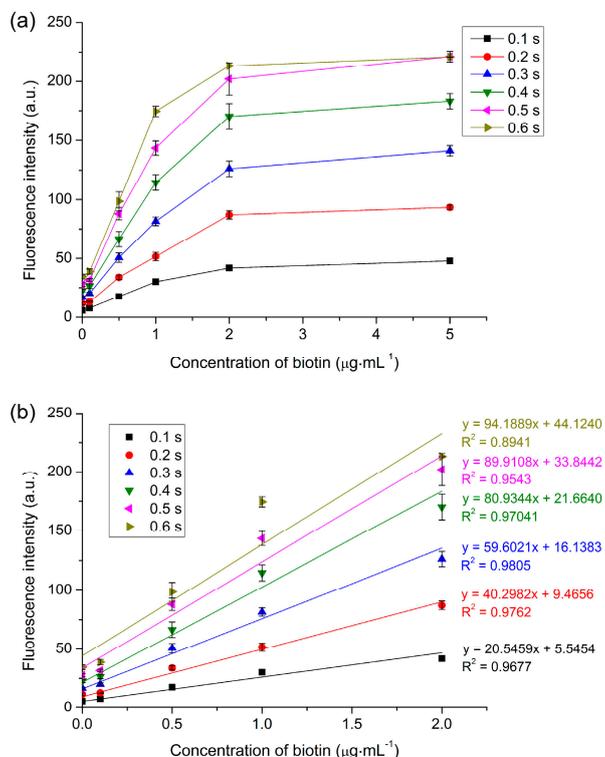


Figure S1. Optimisation of CCD camera exposure time. The fluorescence intensity of streptavidin functionalised particle plugs is plotted against the concentration of fluorescently labelled biotin at different CCD exposure times (0.1–0.6 s): (a) biotin concentrations of 0.1–5 $\mu\text{g}\cdot\text{mL}^{-1}$, demonstrating a typical dose-response curve; and (b) linear range plotted for 0.1–2 $\mu\text{g}\cdot\text{mL}^{-1}$ biotin concentration.

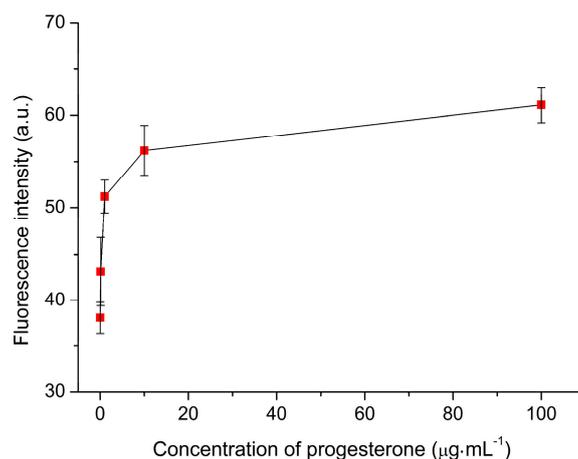


Figure S2. Fluorescently labelled progesterone (P4-FITC) assay. Magnetic particles functionalised with anti-P4 were exposed to different concentrations of P4-FITC and the resultant fluorescence intensities were measured. The plot follows a typical dose-response curve.