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ELECTRONIC SUPPORTING INFORMATION

Theranostic Body Fluid Cleansing: Rationally designed Magnetic Particles enable Capturing and Detection of Bacterial Pathogens

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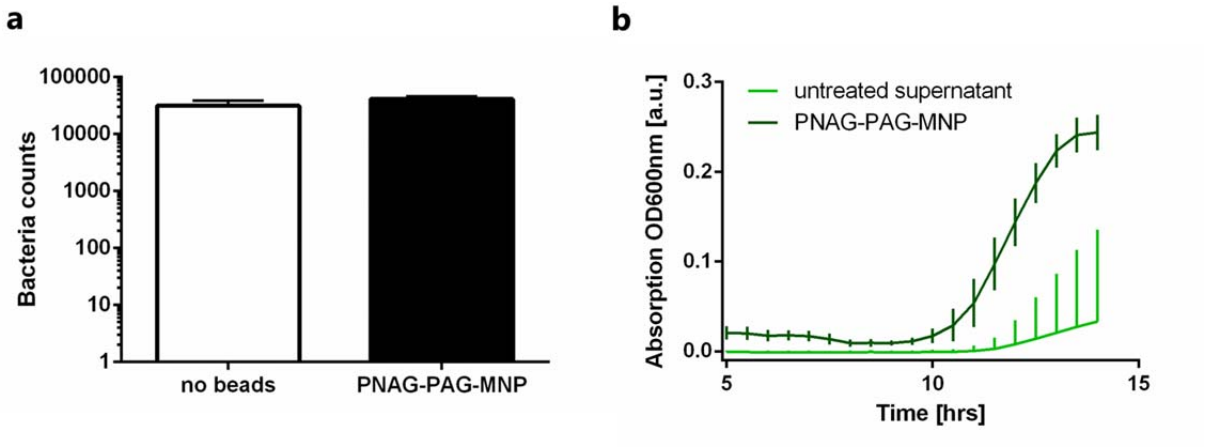

Figure S1: *Bacteria samples incubated with PNAG-PAG-MNP show normal growth rate compared to controls (no beads)(**a**). Measurements of re-growth of S. aureus in the untreated supernatant (no beads) and on collected beads show enrichment of bacteria on the beads (**b**).*

Bacteria viability quantification with proliferation test (Re-growth). 100 µl of the resuspended beads was mixed with 900 µl fresh 30 % TSB (9 g/l) containing 0.25% glucose. 200 µl of the mixture was added to a micro-plate well (3 repeats) and the plate was closed with a sticking transparent foil (Diversified Biotech - Breathe-Easy, T093.1, Carl Roth GmbH+Co. KG) and incubated in a Synergy HT Multi-Detection Microplate Reader (BioTek®) at 37 °C and medium shaking (18Hz - preset value of the instrument). Optical density at 600 nm was measured every 30 min for 14 hours. For each sample, two independent experiments were performed.