

## ***ELECTRONIC SUPPORTING INFORMATION***

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

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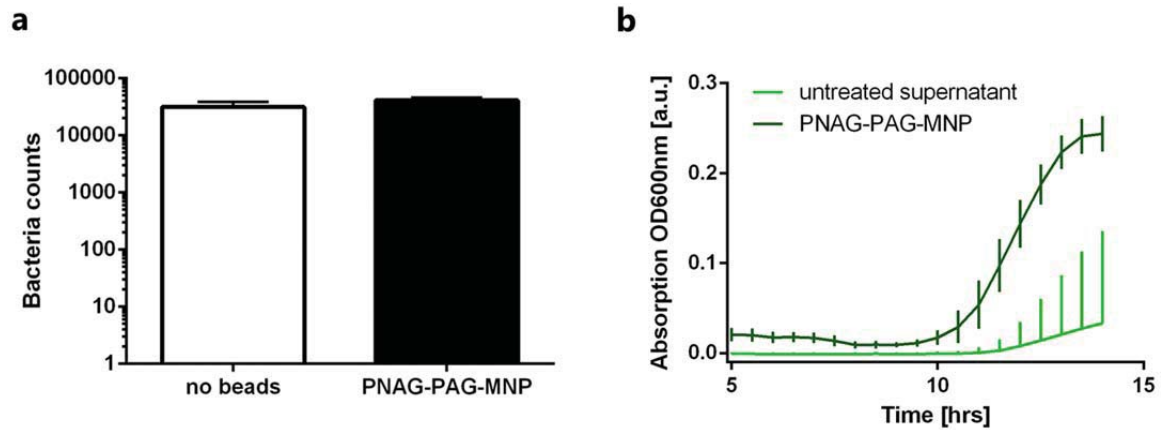
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**Figure S1:** Bacteria samples incubated with PNAG-PAG-MNP show normal growth rate compared to controls (no beads)(a). Measurements of re-growth of *S. aureus* in the untreated supernatant (no beads) and on collected beads show enrichment of bacteria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

**Bacteria viability quantification with proliferation test (Re-growth).** 100  $\mu$ l of the resuspended beads was mixed with 900  $\mu$ l fresh 30 % TSB (9 g/l) containing 0.25% glucose. 200  $\mu$ l of the mixture was added to a microplate 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.