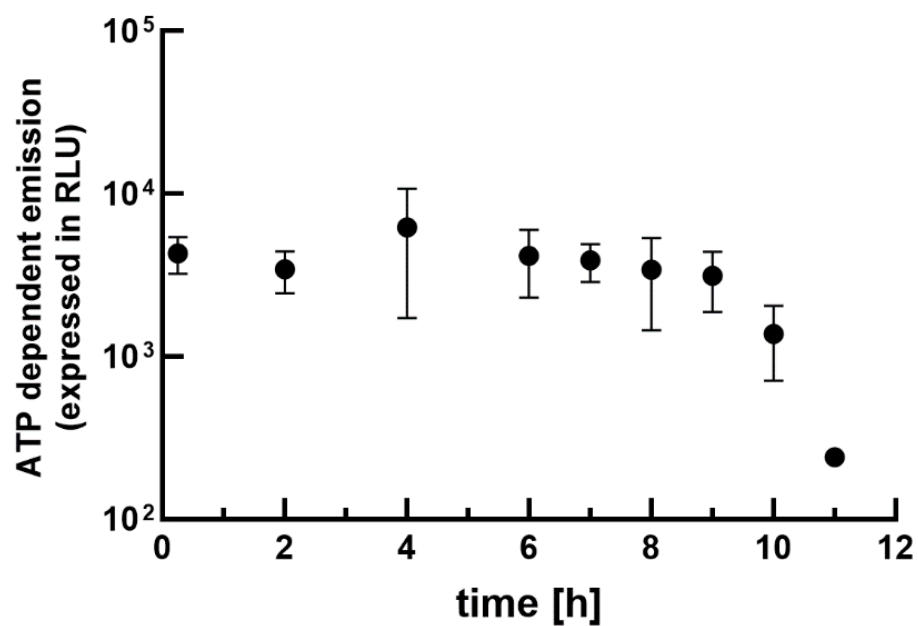
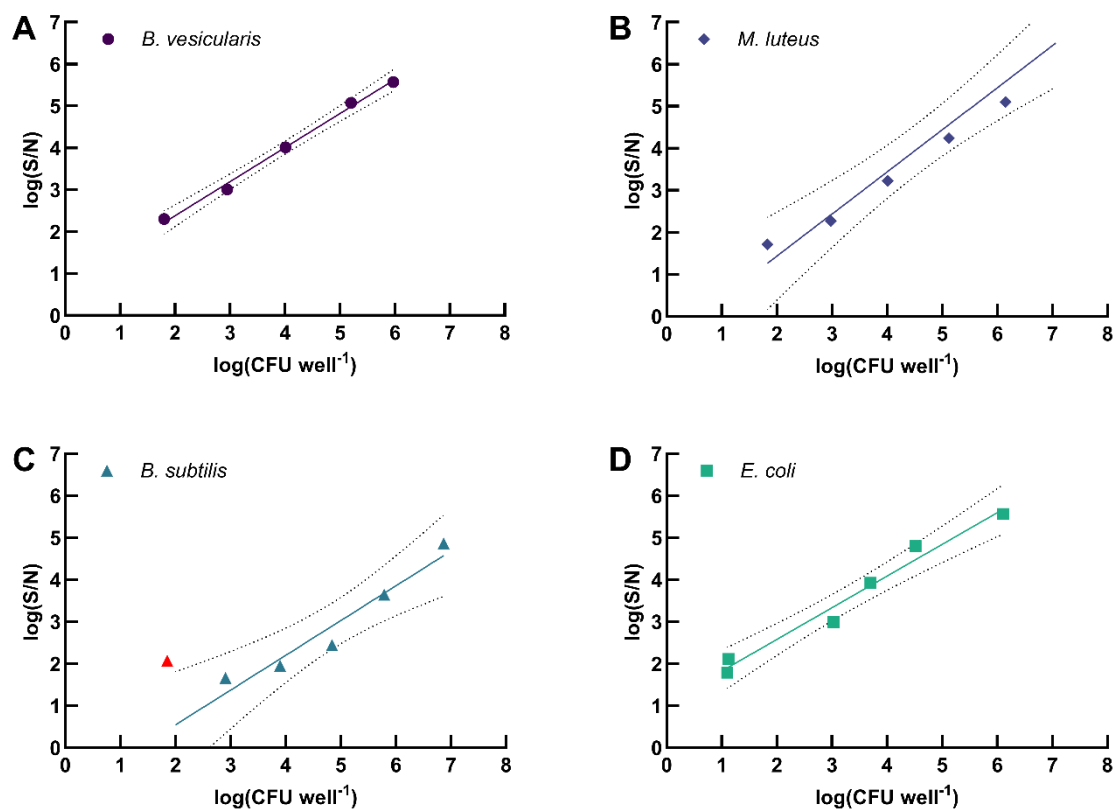


Supplementary Materials:

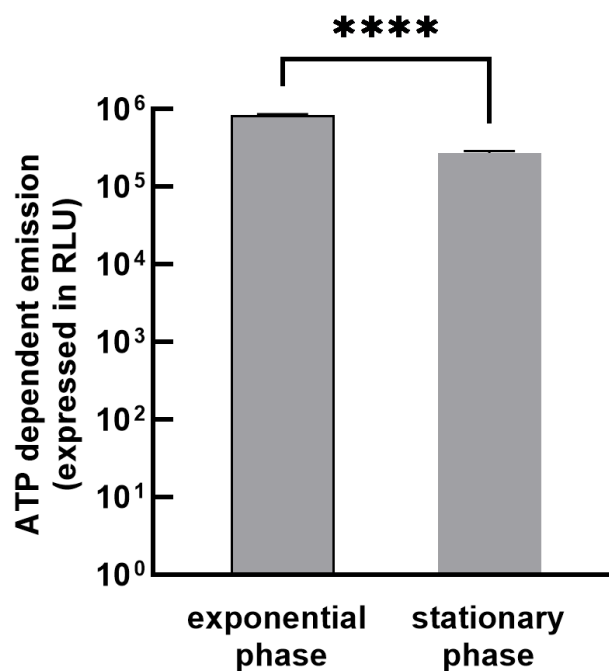


Supplementary Figure S1. “Burn-off” process over time. Results are given as mean (\pm SD), $n=3$.

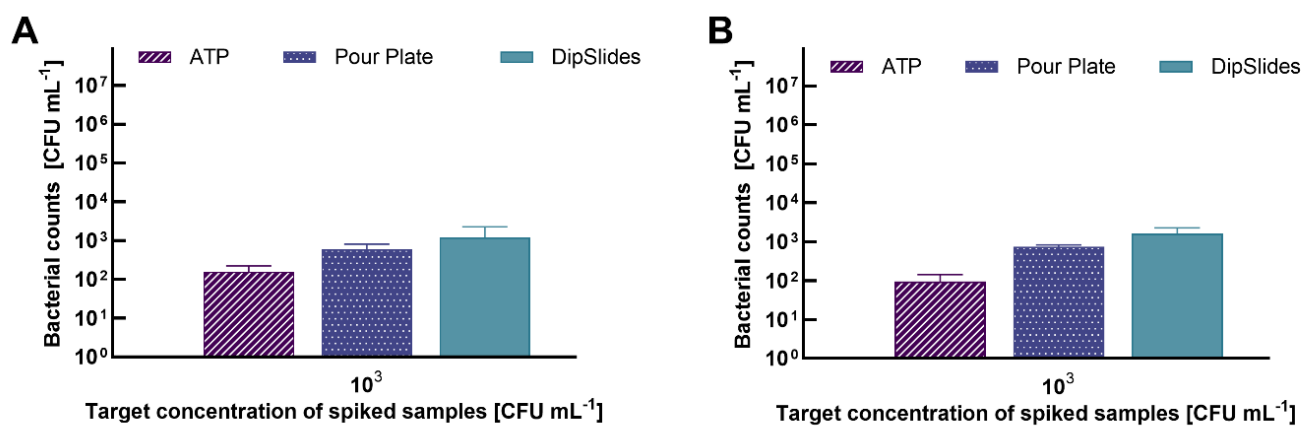


Supplementary Figure S2. Standard curves for each individual target organism including *Brevundimonas vesicularis* (A), *Micrococcus luteus* (B), *Bacillus subtilis* (C) and *Escherichia coli* (D). Results are given as log-transformed mean

values ($n = 3$). Solid lines correspond to the linear regression, dashed lines represent the 95% confidence band. The red triangle was treated as outlier and excluded from the calculation.



Supplementary Figure S3. Luminescence (expressed as RLU) depending on the respective growth-phase. Results represent means (\pm SD), $n = 3$. Asterisks indicate p -values < 0.0001 .



Supplementary Figure S4. Evaluated cell counts (CFU mL⁻¹) using WS (A) and OW (B) as mock specimens targeting an initial cell concentration of 10^3 CFU mL⁻¹. Results represent means (\pm SD), $n = 3$.