## Supplementary Information: Probing the interaction of *ex-situ* biofilms with plasmonic metal nanoparticles using surface-enhanced Raman spectroscopy

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Figure S1. SERS spectra of Ag colloid (a) and Ag colloidenhanced spectra recorded at two different positions of an in-situ *P. aeruginosa* biofilm (b) and (c).



Figure S2. Determination of pyocyanin concentration in the *P. aeruginosa es*-biofilm colloid samples by the method of standard additions.



Figure S3. Comparison of NS- enhanced Raman spectra of *P. aeruginosa* es-biofilm (a) and  $10^{-4}$  M pyocyanin (b).



Figure S4. Determination of adenine concentration in the *S. aureus es*-biofilm colloid samples by the method of standard additions.



Figure S5. Surface enhanced Raman spectra of thiophenol and a sample where *S. aureus es*-biofilm was added to the colloid before addition of thiophenol. Spectra were obtained with Au colloid and are on the same intensity scale, apart from being offset for clarity.



Figure S6. Surface enhanced Raman spectra of thiophenol only and thiophenol sample where *S. aureus es*-biofilm was added to the colloid before addition of thiophenol obtained with NS colloid and are on the same intensity scale, apart from being offset for clarity.



