**Supplementary Information**

**Identification and characterization of small organic compounds within the corona formed around engineered nanoparticles**

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**Table:** Particle Characterization under native condition and after incubation with both fluids

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Particle | Native Particle | | Culture Medium1 | | | Simulated Lung Fluid1 | | |
|  | Size [nm] |  | | Size2 [nm] | Zeta Potential [mV] | | Size2 [nm] | Zeta Potential [mV] |
| CuO | 35 | monoclin | | 278.3 | -5.89 | | 822 | -6.17 |
| TiO2 | 8 | anatase | | 776 | -5.95 | | 1604 | -9.11 |
| ZrO2 | 30 |  | | 315.4 | -7.88 | | 586 | -8.05 |
| ZnO | 3.7 |  | | 175.2 | -9.01 | | 368.6 | -7.58 |

1: Values obtained from dynamic light scattering of particles incubated for 24 h in the corresponding medium as described in the main manuscript. The particle concentration was adjusted to 100 µg.

2: Mean volume diameter