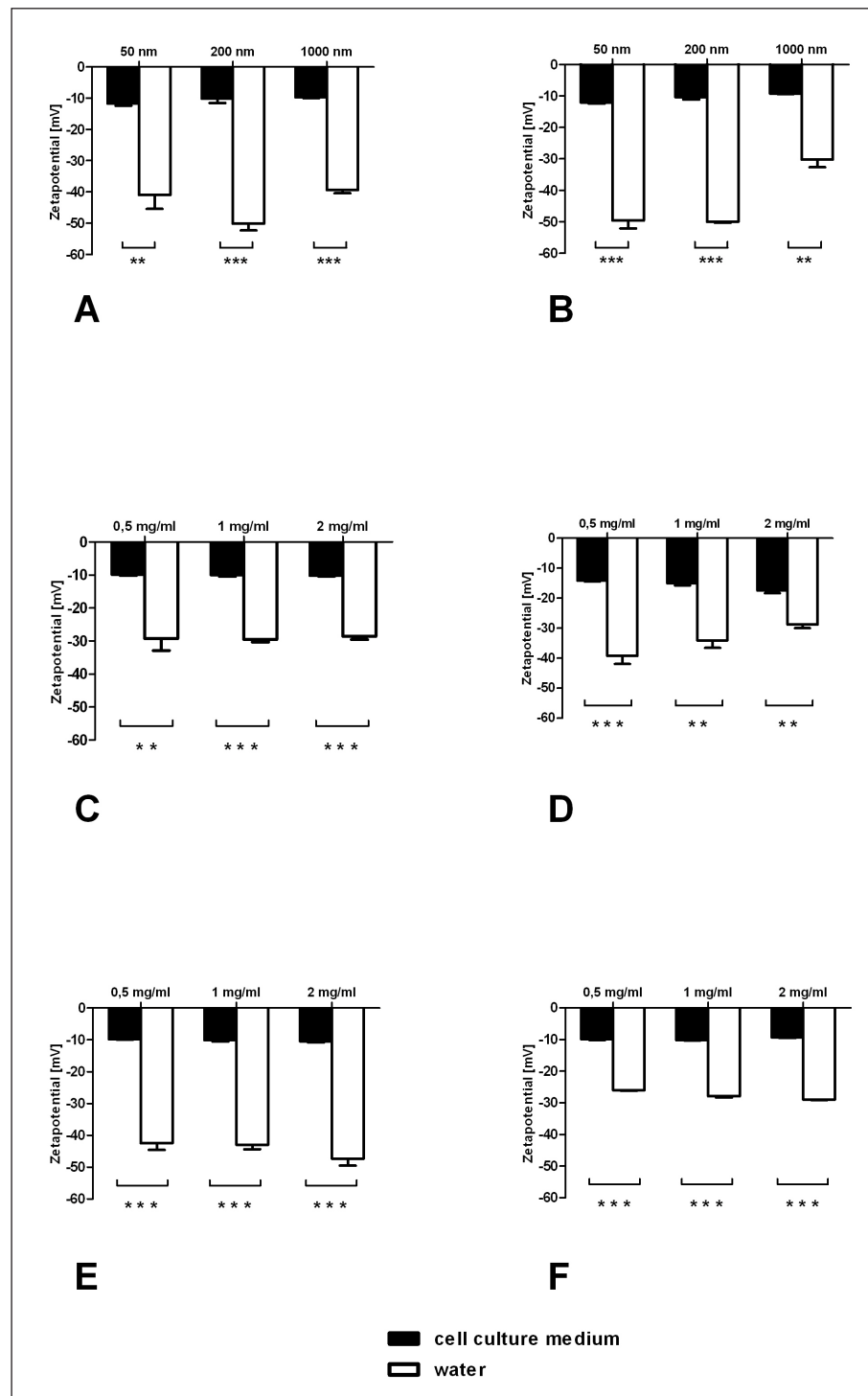
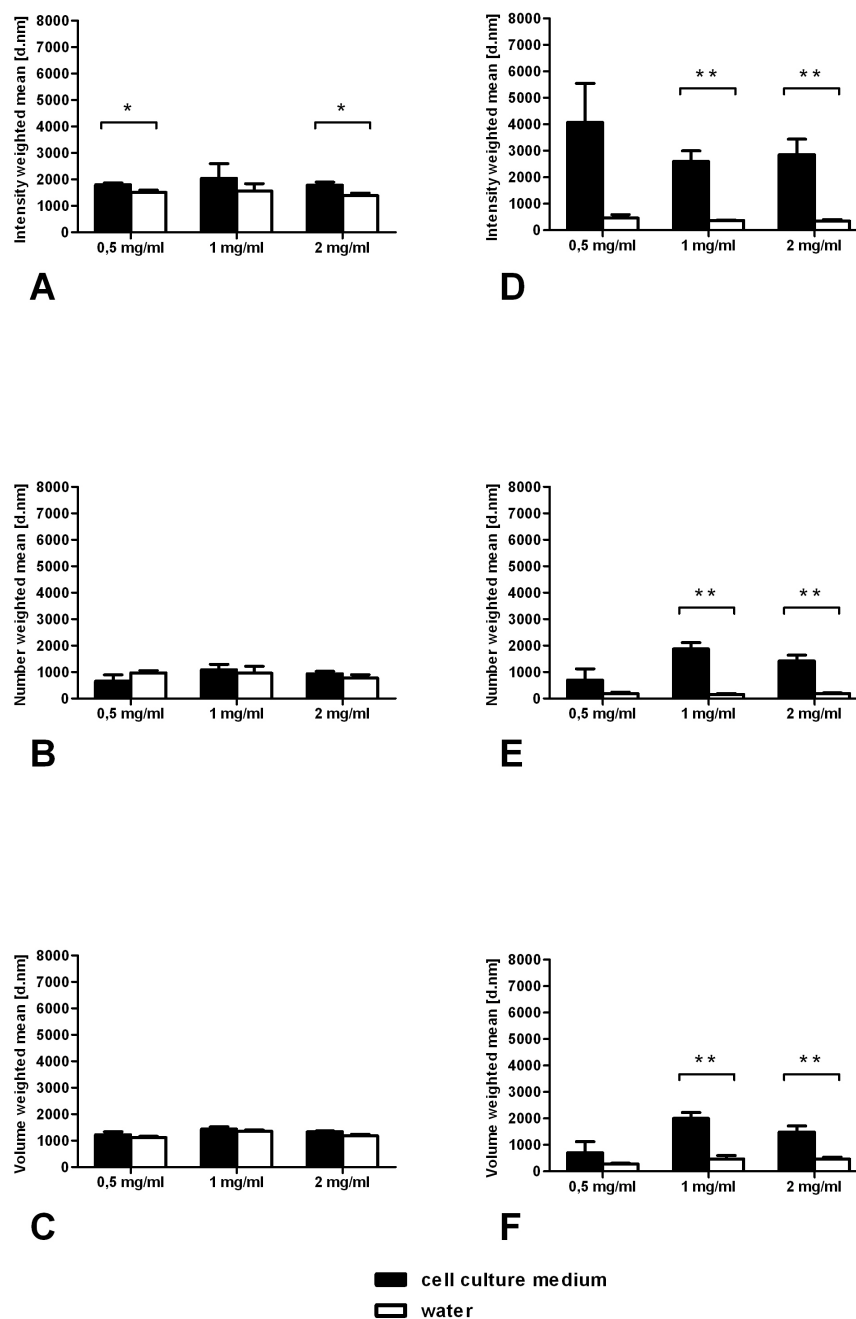




Gauggel et al.:  
**Characterization of Biologically Available Wood Combustion  
Particles in Cell Culture Medium**  
**Supplementary Data**

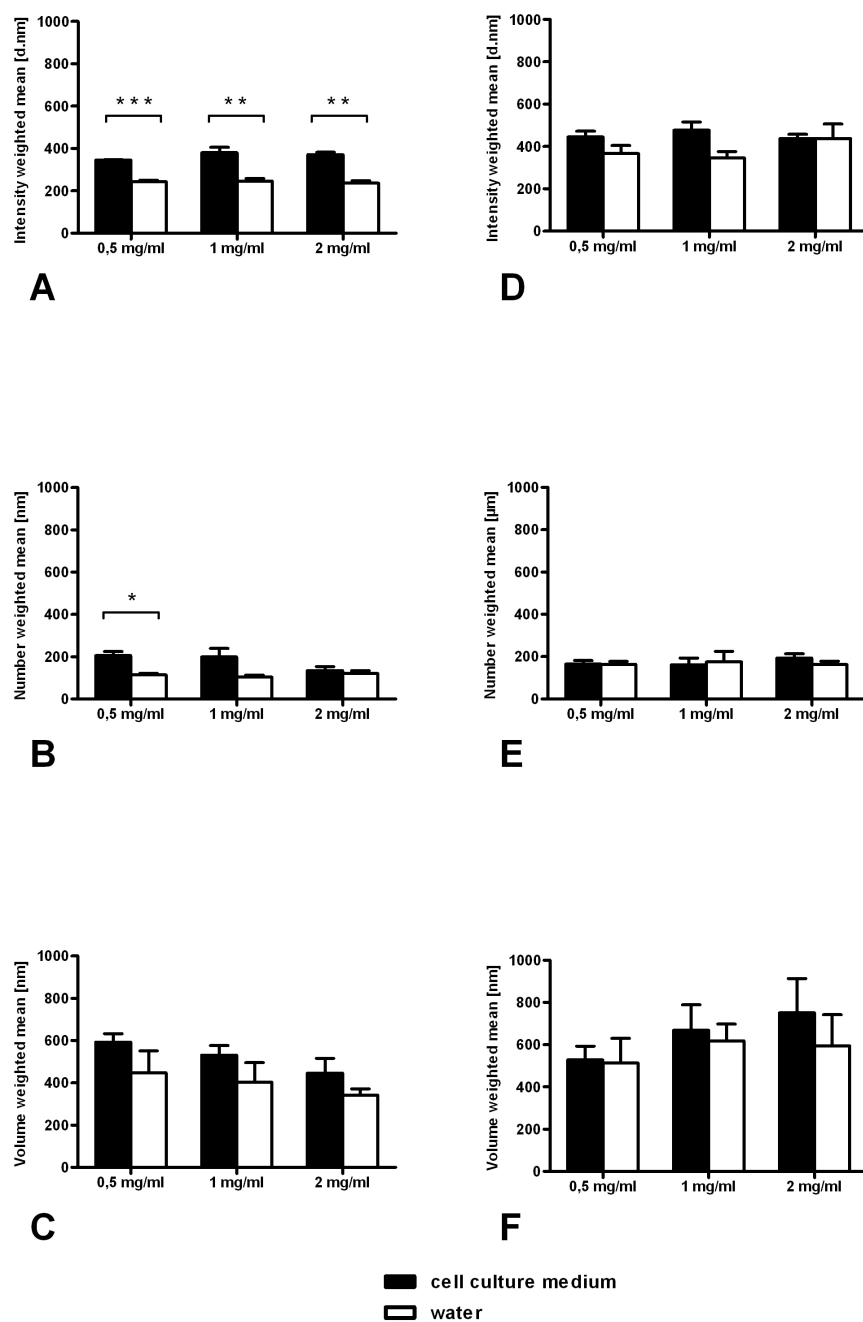


**Fig. S1: Zeta potential measurements of non-fluorescent polystyrene particles (A), fluorescent polystyrene particles (B), DQ25 (C), Aerosil200 (D), PM#01 (E), and PM#02 (F) in cell culture medium and water**  
Mean  $\pm$  SEM is shown (n=3).  
Unpaired t-test used for analysis;  
\* p<0.05, \*\* p<0.01, \*\*\* p<0.001.



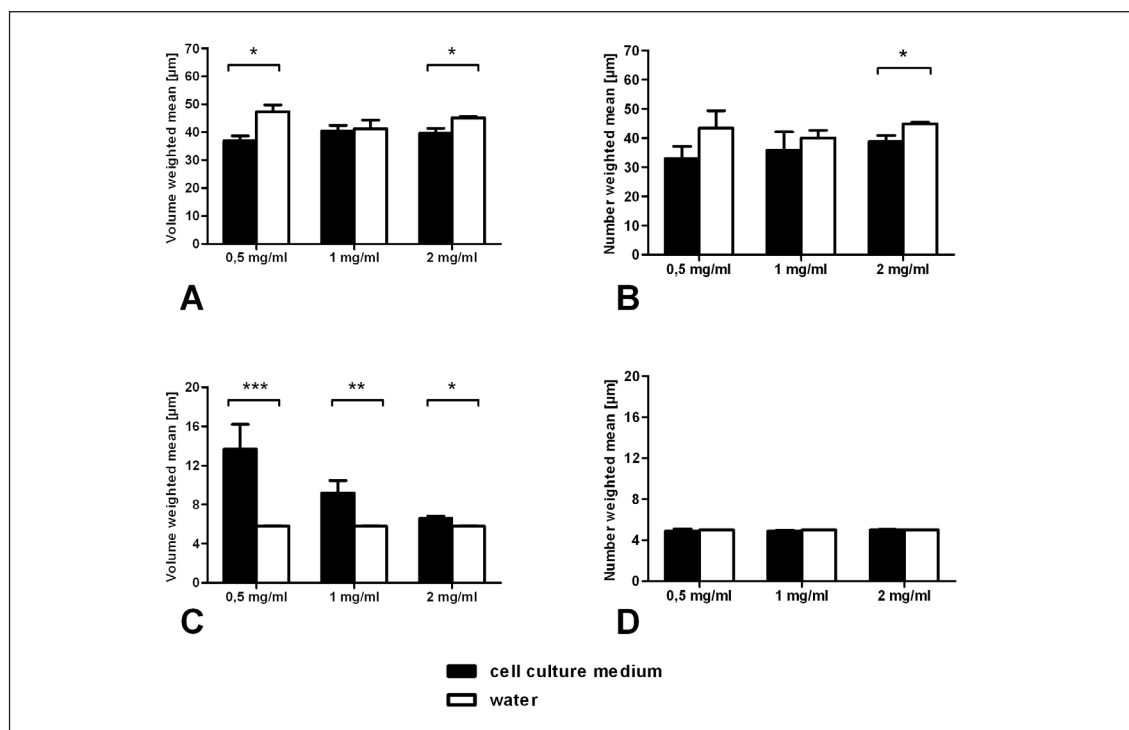
**Fig. S2: Zetasizer measurements of particle size distribution for DQ25 (A-C) and Aerosil200 (D-F) in water and cell culture medium for different concentrations**

The intensity weighted, number weighted and volume weighted means for Aerosil200 and DQ25 are shown, respectively. Mean  $\pm$ SEM is shown ( $n=3$ ,  $n=4$  for Aerosil200 and DQ25 for 0.5 and 2 mg/ml). Unpaired t-test, \*  $p<0.05$ , \*\*  $p<0.01$ .



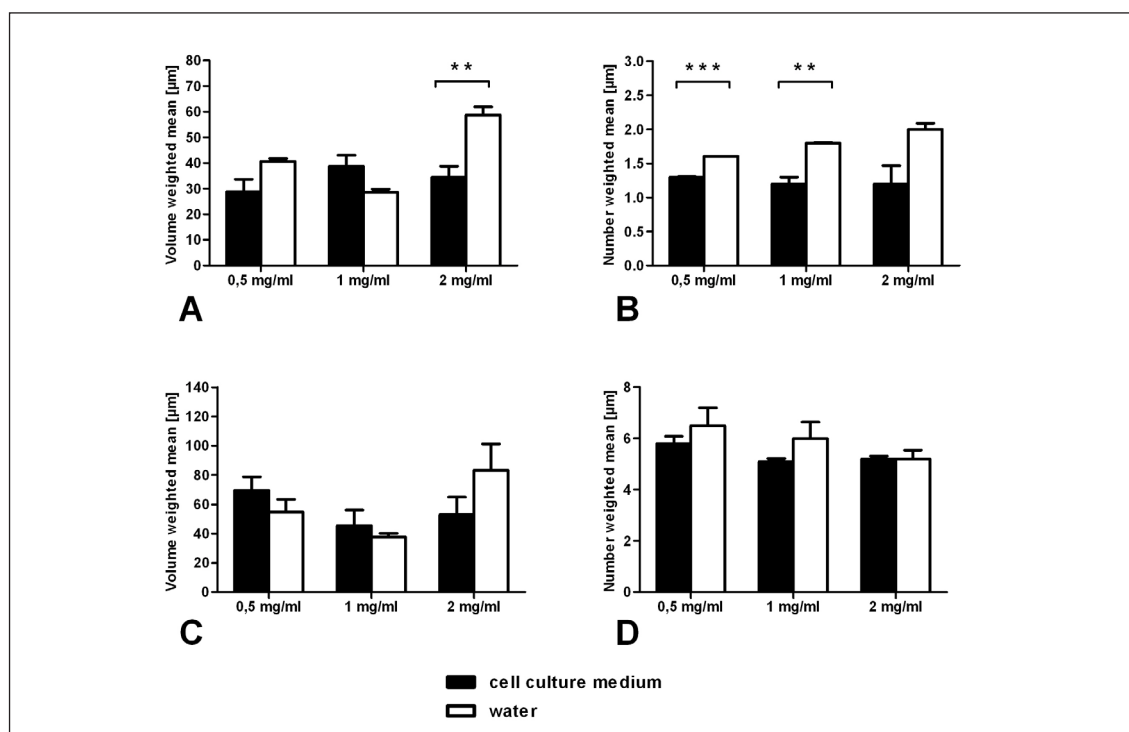
**Fig. S3: Zetasizer measurements of particle size distribution for PM#01 (A-C) and PM#02 (D-F) in water and cell culture medium for different concentrations**

The intensity weighted, number weighted, and volume weighted means for PM#01 and PM#02 are shown, respectively. Mean  $\pm$ SEM is shown (n=3). Unpaired t-test used for analyses. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .



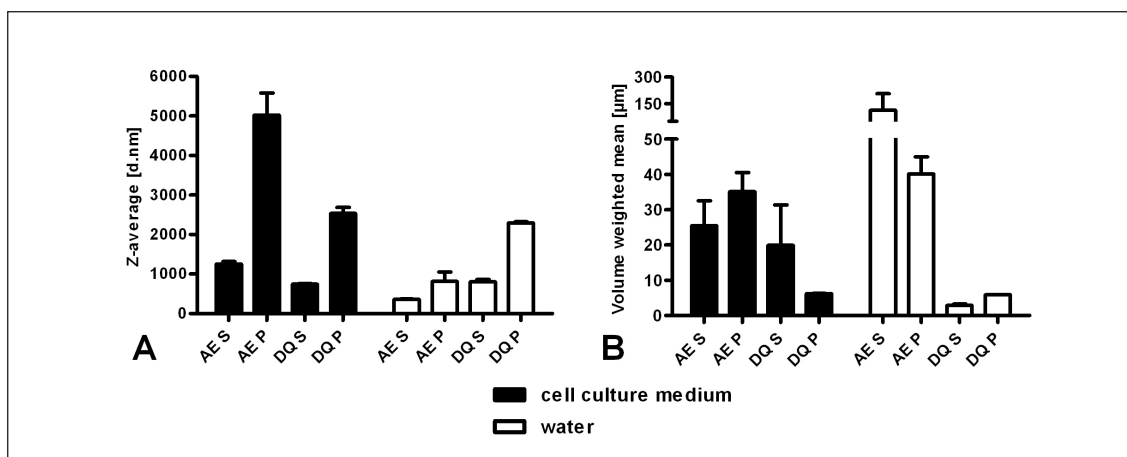
**Fig. S4: Mastersizer measurements of mean particle size for Aerosil200 (A, B) and DQ25 (C, D) in water and cell culture medium for different concentrations**

The volume weighted (A, C) and number weighted means (B, D) are shown. Mean  $\pm$ SEM is shown ( $n=3$ ,  $n=4$  for Aerosil200 and DQ25 for 0.5 and 2 mg/ml). Unpaired t-test, \*  $p<0.05$ , \*\*  $p<0.01$ , \*\*\*  $p<0.001$ .

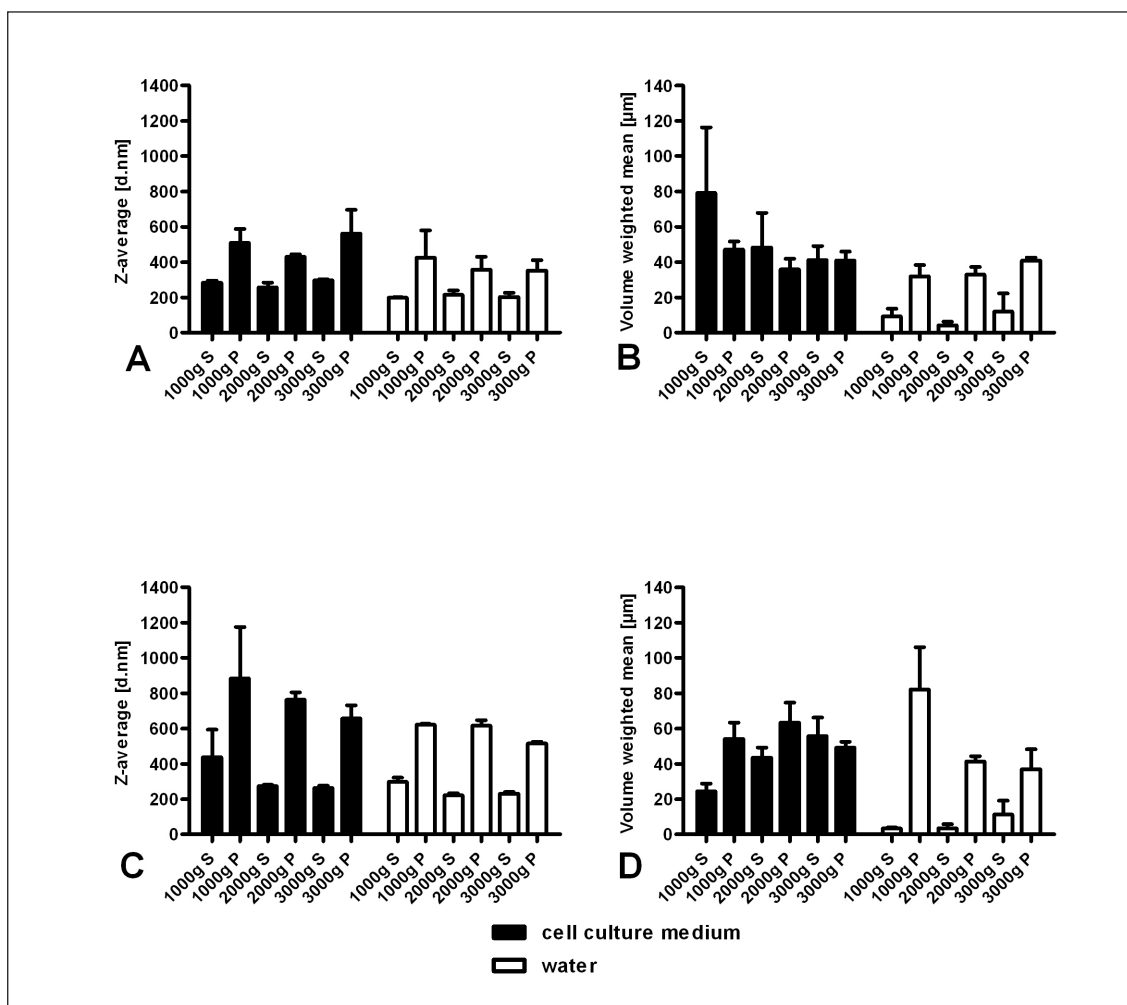


**Fig. S5: Mastersizer measurements of volume (A) and number (B) weighted mean particle size of PM#01 (A, B) and PM#02 (C, D) in water and cell culture medium for different concentrations**

Mean  $\pm$ SEM is shown ( $n=3$ ). Unpaired t-test, \*\*  $p<0.01$ , \*\*\*  $p<0.001$ .



**Fig. S6: Zetasizer (A) and Mastersizer (B) measurements of mean particle size of supernatant (S) and pellet (P) of Aerosil200 (AE) and DQ25 (DQ) in cell culture medium and water centrifuged at 111g**  
Mean  $\pm$ SEM is shown (n=3).



**Fig. S7: Zetasizer (A, C) and Mastersizer (B, D) measurements of mean particle size of supernatant (S) and pellet (P) of PM#01 (A, B) and PM#02 (C, D) centrifuged at different velocities in cell culture medium and water**  
Mean  $\pm$ SEM is shown (n=3).