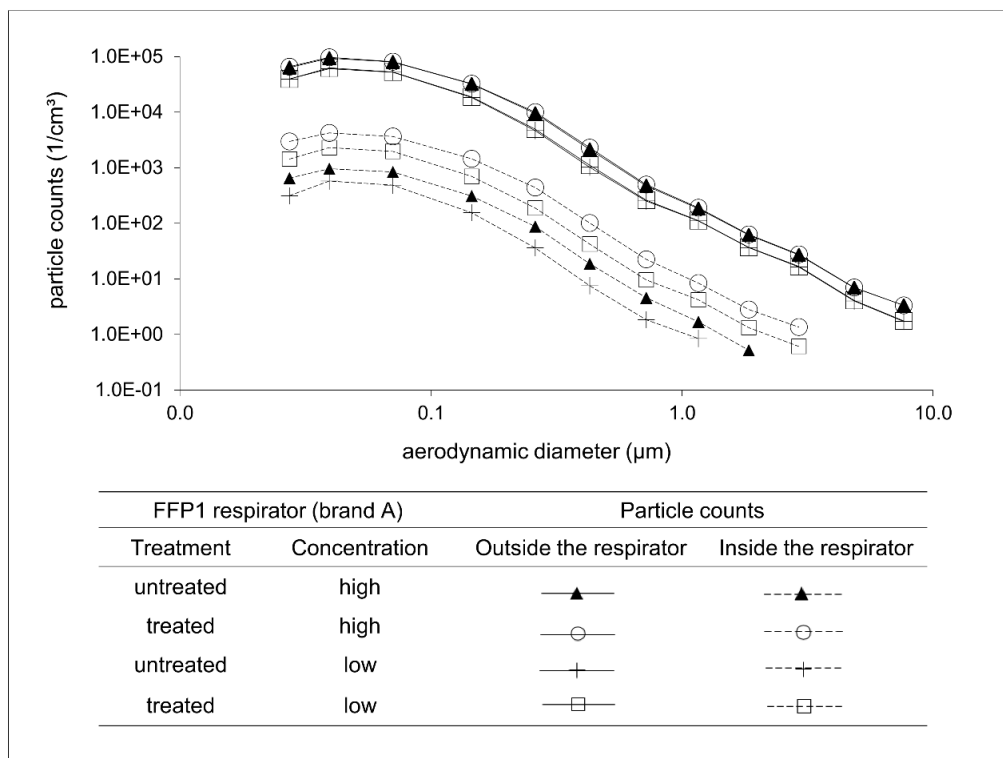


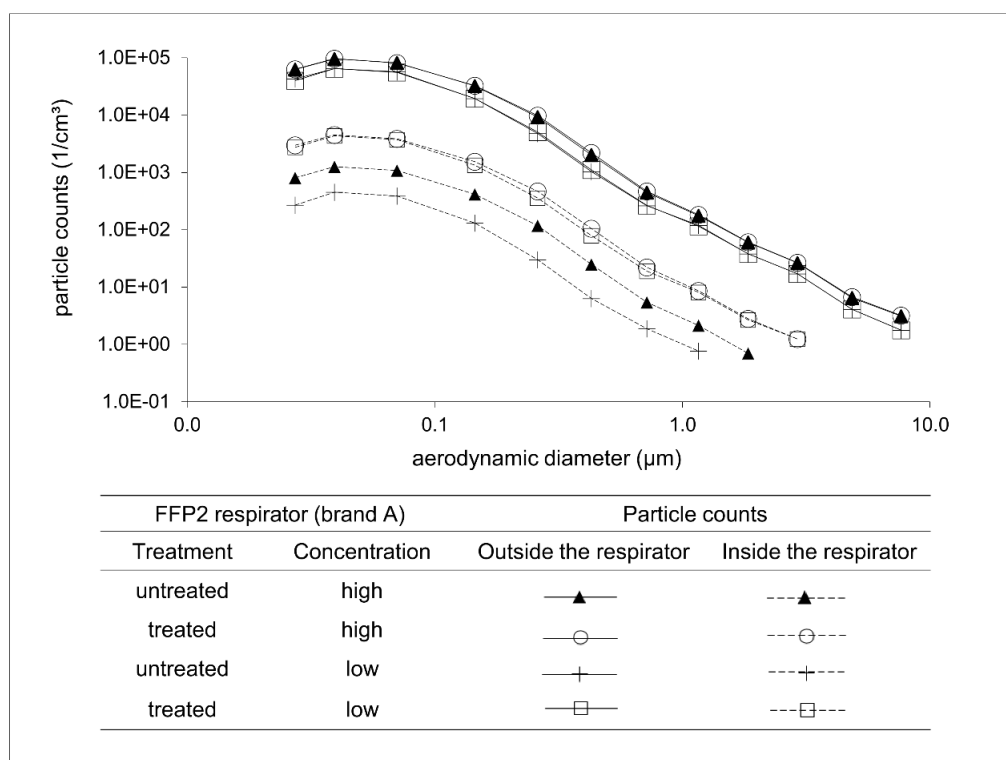
## Supplementary material

The empirical distributions (histogram) of aerodynamic diameters as measured by ELPI™ are presented in Figure 1-6. All the results are the arithmetic mean values of three repetitions. Both X-axis and Y-axis are displayed on a logarithmic scale.

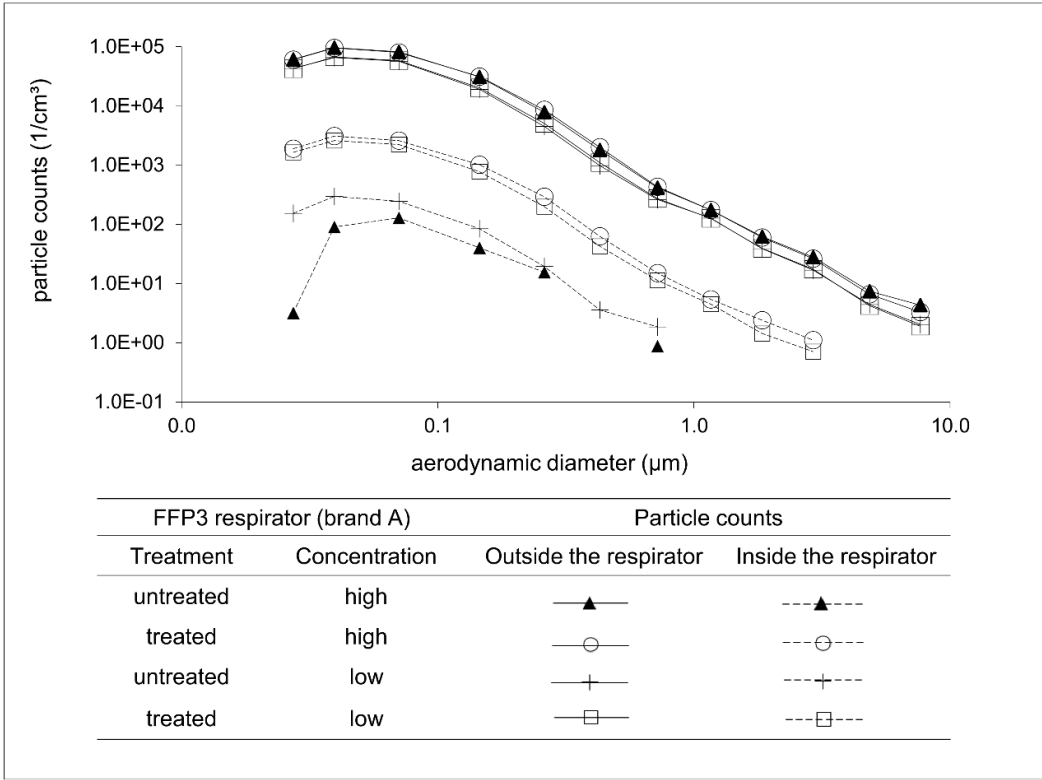
Figures 1 and 4 have been discussed in the text. The other figures are presented here for the sake of completeness.



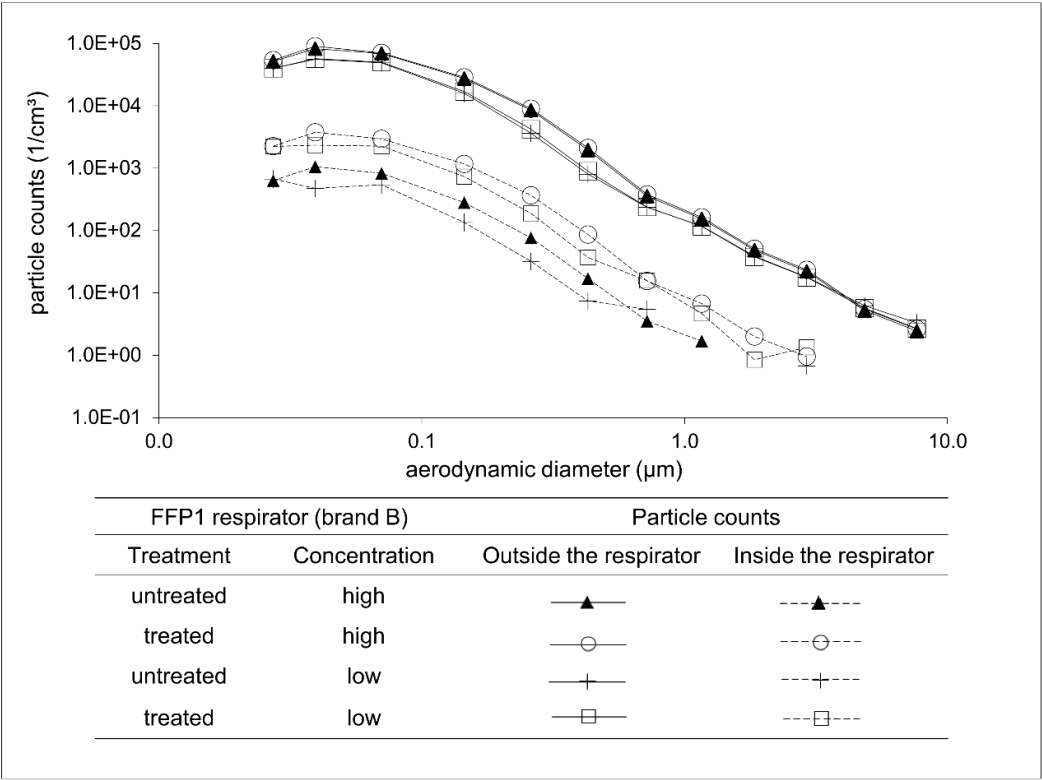
**Fig. 1** Particle size distribution of FFP1 respirator from brand A



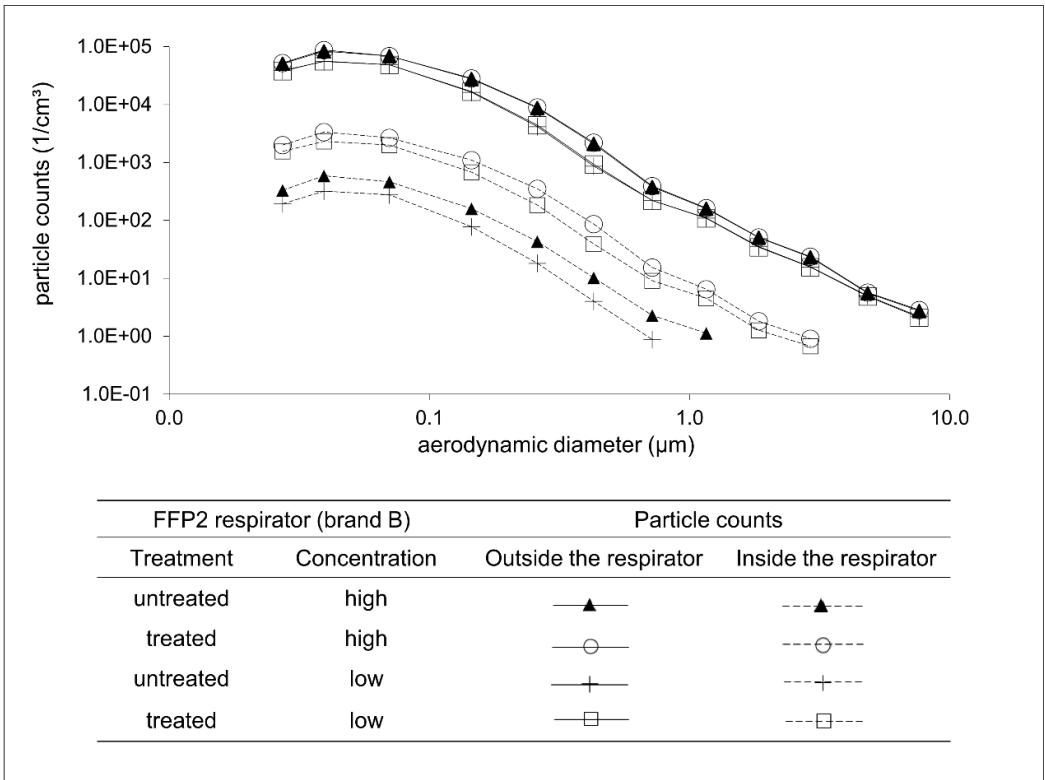
**Fig. 2** Particle size distribution of FFP2 respirator from brand A



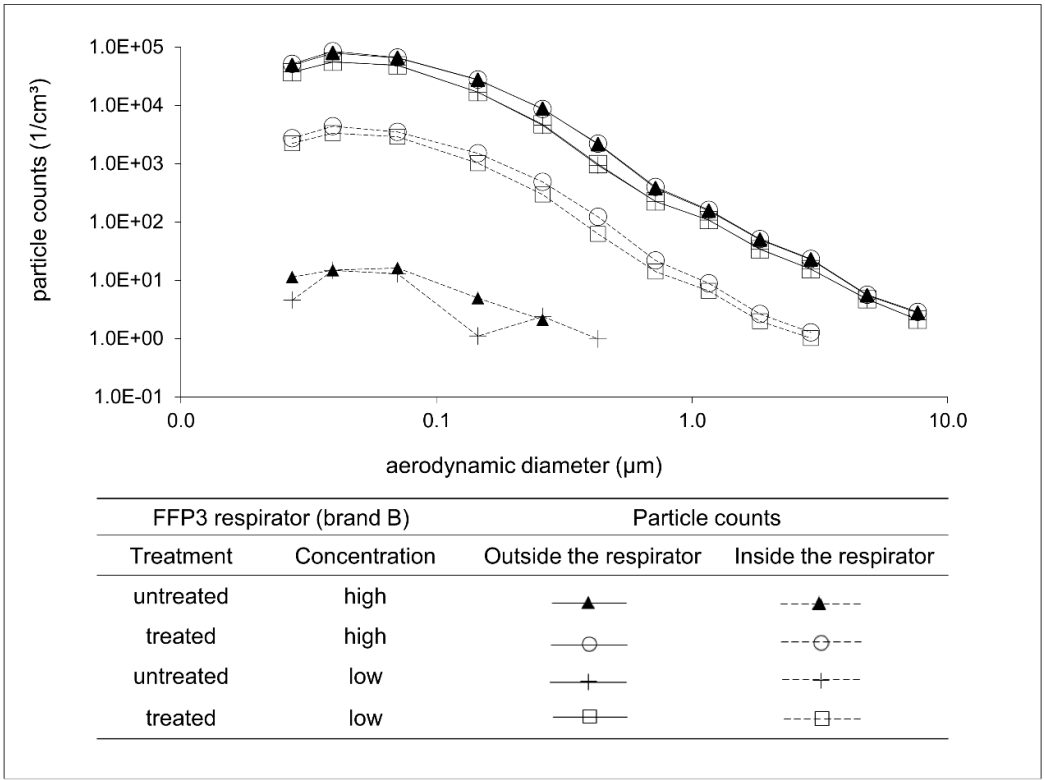
**Fig. 3** Particle size distribution of FFP3 respirator from brand A



**Fig. 4** Particle size distribution of FFP1 respirator from brand B



**Fig. 5** Particle size distribution of FFP2 respirator from brand B



**Fig. 6** Particle size distribution of FFP3 respirator from brand B