

Supplementary material

Figure S1. Whole-body inhalation exposure chamber for nebulization of microparticles in solution.

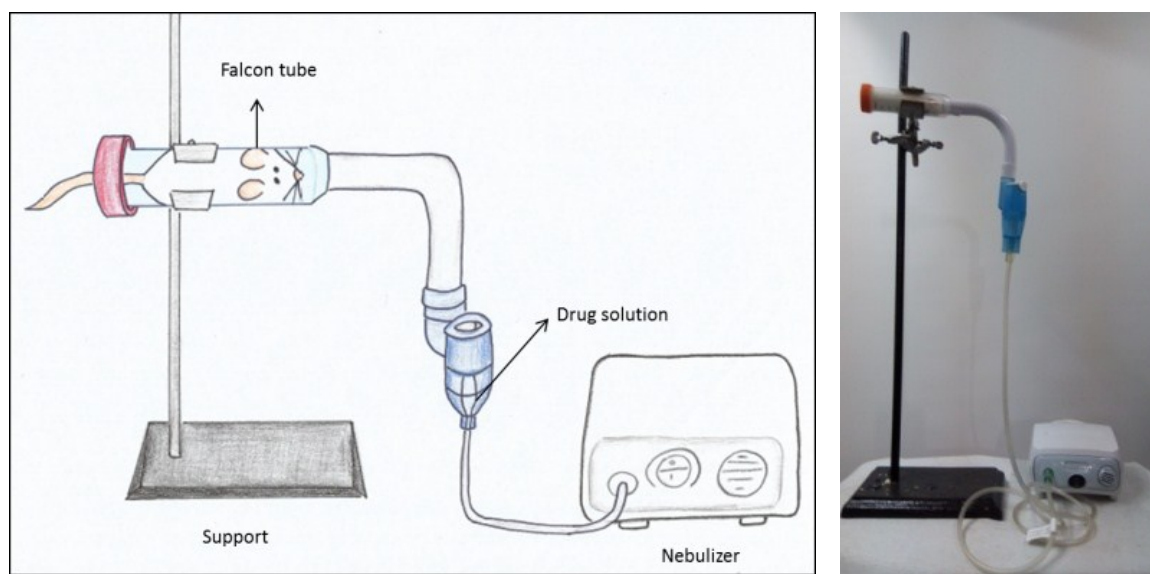


Figure S2. Hand-held apparatus for “nose-only” exposure of mice to inhalable microparticles as a dry powder inhalation targeting lung

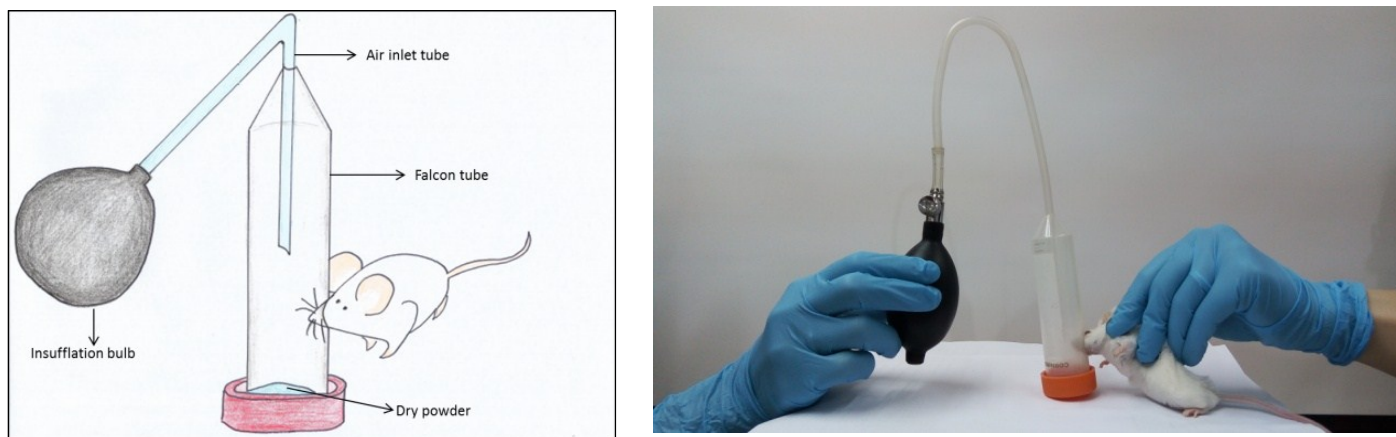


Figure S3. ^1H -NMR study of the degradation products of CaCO_3/Alg microparticles after AL treatment. The signal is originated from the underlined residue and the numbers denote proton causing the signal. M or G without underline indicates neighbor residue.

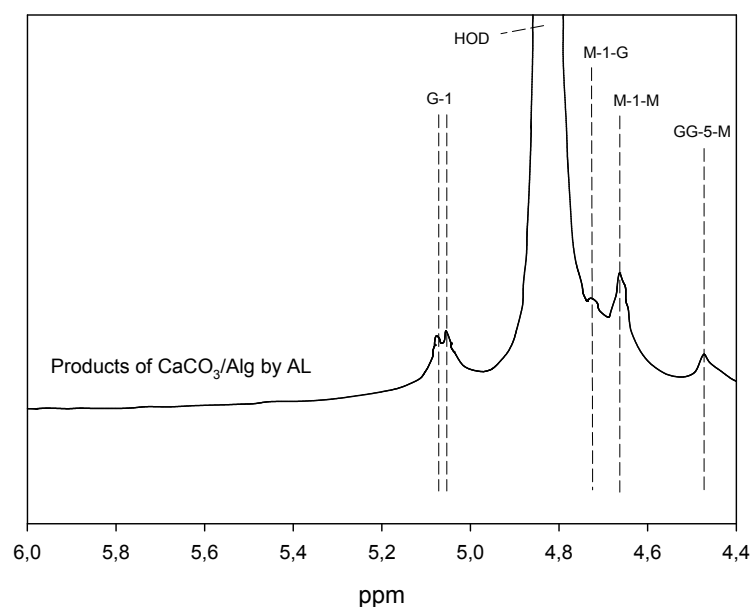


Figure S4 Optical microscopy of CaCO_3/Alg microparticles: non-treated (left) and AL treated microparticles (right) at 400X magnifications.

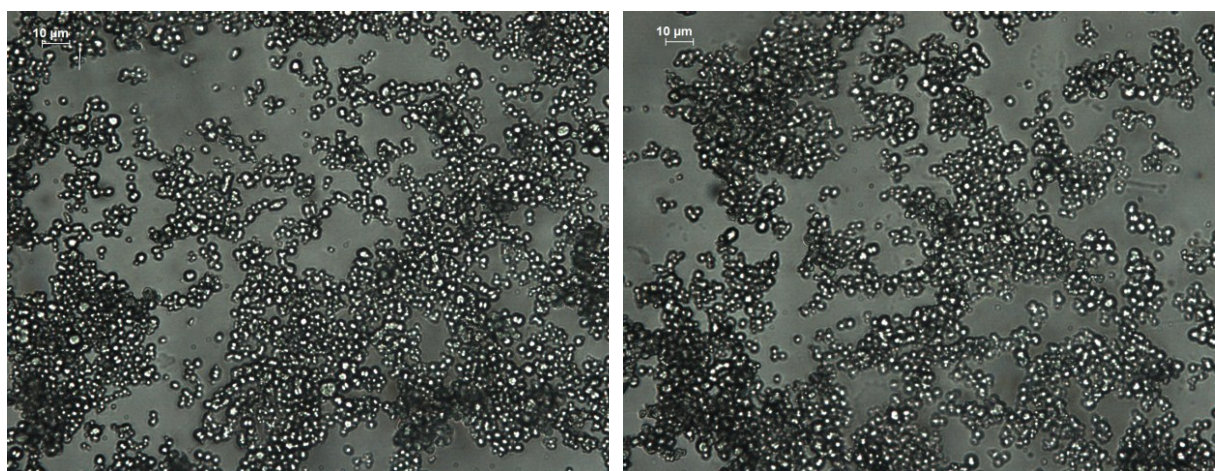


Figure S5. Measure of Z potential (stripped-striped bars) and mobility of microparticles (empty bars) CaCO₃/Alg+AL: empty and loaded with LV/DNase.

