



Supplementary Figure S4: Scale-up of 1-palmitoyl, 2-oleoyl PC (POPC)/ Cholesterol Vesicles by parallelization of individual microfluidic SHM mixers. Limit size LNP composed of 1-palmitoyl, 2-oleoyl phosphatidylcholine (POPC)/cholesterol (55/45; mol/mol) were made by mixing lipid in ethanol with aqueous buffer at a buffer-to-ethanol volumetric flow rate ratio of 3:1, with a total flow rate of 12 ml/min in a single microfluidic mixer having a channel cross-section of 130 μm x 300 μm . The final lipid concentration after mixing was 8 mg/ml. Error bars represent standard deviation of multiple formulations made with the microfluidic mixers ($n= 7$ for single mixer and $n= 3$ for 6x mixer).