Tuning Lipid Nanocarrier Mechanical Properties to improve Glioblastoma Targeting and Blood Brain Barrier Penetration

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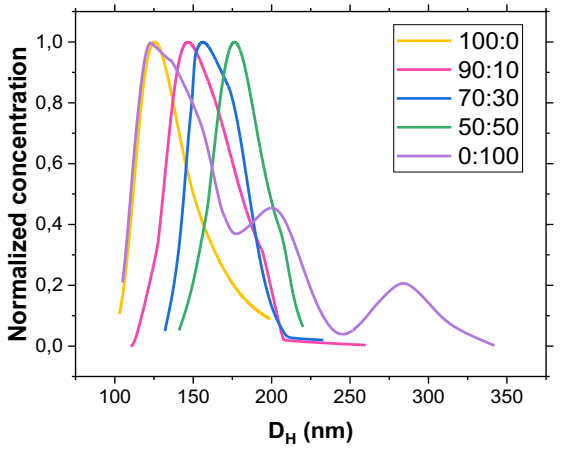
Table S1. Hydrodynamic Mean Diameter (D_H), Polydispersity (PDI), and Zeta potential of NLSs by DLS. Data are expressed as mean ± SD.

NLS	Hydrodynamic diameter (nm)	Z potential (mV)	PDI
100:0	151 ± 9	-49 ± 6	0,12 ± 0,05
90:10	158 ± 10	-48 ± 11	0,16 ± 0,04
70:30	166 ± 9	-47 ± 1,	0,17 ± 0,08
50:50	258 ± 52	-46 ± 1	0,36 ± 0,11
0:100	527 ± 38	-46 ± 1	0,34 ± 0,05

A



B

NLS	Hydrodynamic diameter (nm)
100:0	152 ± 9
90:10	167 ± 11
70:30	171 ± 12
50:50	199 ± 21
0:100	223 ± 46

Figure S1. A. Histograms of NLSs by NTA. **B.** Hydrodynamic Mean Diameter (DH) of NLSs by NTA. Data are expressed as mean ± SD, n = 3

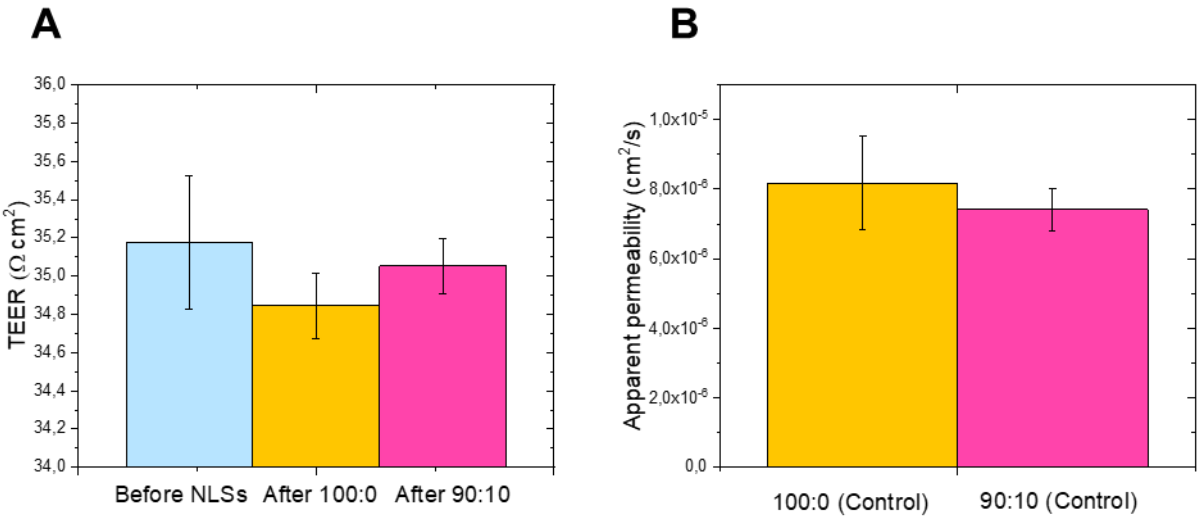


Figure S2. A. TEER values of hCMEC7d3 endothelium monolayer before and after transport studies with 100:0 and 90:10 NLSs. **B.** Apparent permeability of 100:0 and 90:0 NLSs in empty Transwell systems.