

Supplementary Materials

Exploring Stearic-Acid-Based Nanoparticles for Skin Applications—Focusing on Stability and Cosmetic Benefits

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Table S1. Physicochemical properties of solid lipid nanoparticles (SLN) and nanostructured lipid carriers (NLC) according to their solid lipid composition: stearic acid (SLN_1 and NLC_1), Precirol® ATO 5 (SLN_2 and NLC_2) or stearic acid:Precirol® ATO 5 1:1 (SLN_3 and NLC_3). Data are presented as mean \pm SD (n = 3).

Formulations	Size (nm)	PDI	pH	Viscosity (mPa.s)
SLN_1	248 \pm 37	0.10 \pm 0.04	4.0 \pm 0.2	1.56 \pm 0.02
SLN_2	198 \pm 33	0.20 \pm 0.03	4.16 \pm 0.05	2.33 \pm 0.12
SLN_3	263 \pm 44	0.30 \pm 0.03	4.16 \pm 0.05	4.1 \pm 0.6
NLC_1	276 \pm 18	0.13 \pm 0.03	3.92 \pm 0.18	1.60 \pm 0.03
NLC_2	202 \pm 29	0.18 \pm 0.03	4.05 \pm 0.10	2.49 \pm 0.08
NLC_3	340 \pm 52	0.30 \pm 0.03	3.81 \pm 0.11	1730 \pm 70

Figure S1. Phase-contrast images of solid lipid nanoparticles (SLN) and nanostructured lipid carriers (NLC) according to their solid lipid composition: stearic acid (SLN_1 and NLC_1), Precirol® ATO 5 (SLN_2 and NLC_2) or stearic acid:Precirol® ATO 5 1:1 (SLN_3 and NLC_3). Lipid nanoparticles were diluted 1:100 prior to image acquisition with a Zeiss Axio Observer microscope (White Plains, NY, USA) with a LD A-Plan x40 objective using ZEN blue software. Scale bar 5 μ m.

