

# Supplementary materials: Development of a Nanostructured Lipid Carrier (NLC) by a low-Energy Method, Comparison of Release Kinetics and Molecular Dynamics Simulation

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Table S1. Preliminary formulations leading to the selected NLC (%p/p) composition. In blue is the selected formulation composition for the current investigation.

Formulation	Gelucire® 44/14	Tocopherol	Stearic acid	Oleic acid	Mygliol® 812	Tween® 80	Span® 20	Water
A1	5	-----	-----	0.5	-----	-----	3.5	91
A2	5	-----	-----	1	-----	2	-----	92
A3	4	-----	-----	2.5	-----	1.5	1	91
A4	4	-----	-----	2	-----	-----	2	92
A5	4	1	-----	0.5	-----	1.5	-----	91
A6	3	2	-----	1	-----	2	-----	92
A7	3	3	-----	2	-----	2	1	89
A8	4	-----	-----	-----	0.5	2.5	-----	93
A9	4	-----	-----	-----	1	2	-----	93
A10	4	-----	-----	-----	1.5	2.5	2	90
A11	3	-----	1	-----	1	2	-----	93
A12	4	-----	2	-----	2	-----	2	90

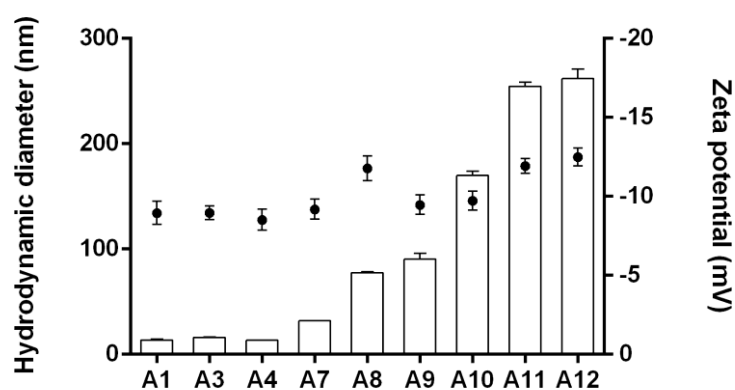


Figure S1. Hydrodynamic diameter (nm) and zeta potential of all formulation. The formulations not included in the figure were physically unstable.