(Supplementary File)

**Fabrication of lipidic nanocarriers of loratadine for facilitated intestinal permeation
using multivariate design approach**

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Supplementary Figure F1

Supplementary Figure F1: Residual vs. Predicted data plots (first row) and leverage plots (second row) for the responses: mean globule size in Millipore water, Y1 (A, B); emulsification time, Y4 (C, D); %DE, Y5 (E, F) and T65%, Y6 (G, H). The red lines represent the border limits of the plots.

Supplementary Table T1

Supplementary Table T1
Standardized Main Effects of the Factors and their corresponding ANOVA
on Quality attributes

Responses	Source	Coeff. Value	SME	SS	d.f.	MS	F-value	p-value
Y1	Model (2FI)			1116.62	3	372.21	59.51	0.0002
	β_0	+33.43	40.28	-	-	-	-	-
	β_1	+12.15	11.91	885.01	1	885.01	141.50	<0.0001
	β_2	-5.45	-5.34	178.54	1	178.54	28.55	0.0031
	β_3	-3.64	-2.91	53.07	1	53.07	8.49	0.0333
	Residual	-		31.27	5	6.25 (MSE)	-	-
	Cor.Total	-		1147.89 (SST)	8	-	-	-
Y2	Model (2FI)			970.98	3	323.66	181.04	<0.0001
	β_0	+30.96	68.8	-	-	-	-	-
	β_1	+11.60	21.09	806.90	1	806.90	451.34	<0.0001
	β_2	-4.76	-8.65	135.95	1	135.95	76.04	0.0003
	β_3	-2.65	-3.96	28.14	1	28.14	15.74	0.0107
	Residual	-		8.94	5	1.79 (MSE)	-	-
	Cor.Total	-		979.92 (SST)	8	-	-	-
Y3	Model (2FI)			930.22	3	310.07	74.62	0.0001
	β_0	+34.51	50.75	-	-	-	-	-
	β_1	+11.00	13.25	726.00	1	726.00	174.72	<0.0001
	β_2	-5.32	-6.41	169.71	1	169.71	40.84	0.0014
	β_3	-2.94	-2.88	34.52	1	34.52	8.31	0.0345
	Residual	-		20.78	5	4.16 (MSE)	-	-
	Cor.Total	-		951.0 (SST)	8	-	-	-
Y4	Model (Linear)			7.750E+005	2	3.875E+005	44.67	0.0002
	β_0	+391.56	12.61	-	-	-	-	-
	β_1	+325.67	8.57	6.364E+005	1	6.364E005	73.36	0.0001
	β_2	-152.00	-3.99	1.386E+005	1	1.386E+005	15.98	0.0071
	Residual	-		52045.56	6	8674.26 (MSE)	-	-
	Cor.Total	-		8.270E+005(SST)	8	-	-	-
Y5	Model (Linear)			181.54	2	90.77	21.37	0.0019
	β_0	+69.29	100.42	-	-	-	-	-
	β_1	-4.79	-5.70	137.75	1	137.75	32.43	0.0013
	β_2	+2.70	3.21	43.79	1	43.79	10.31	0.0183
	Residual	-		25.48	6	4.25 (MSE)	-	-
	Cor.Total	-		207.02 (SST)	8	-	-	-
Y6	Model (2FI)			410.24	3	136.75	55.72	0.0003
	β_0	+10.81	20.788	-	-	-	-	-
	β_1	+6.56	10.25	258.07	1	258.07	105.15	0.002
	β_2	-4.05	-6.33	98.66	1	98.66	40.20	0.0014
	β_3	-3.66	-4.69	53.51	1	53.51	21.80	0.0055
	Residual	-		12.27	5	2.45 (MSE)	-	-
	Cor.Total	-		422.51 (SST)	8	-	-	-

SME: Standardized Mean Effect; SS: Sum of Squares; MS: Mean Sum of Squares; SST: Total Sum of Squares; MSE: Mean Square for error; d.f: Degrees of freedom