

<b>Table 1.</b> Nanoformulations suggested by “Design Expert” software at independent variables and their responses.											
Formulation code	Independent variables					Dependent variables					
	Coded factors					Observed responses			Predicted responses		
	X <sub>1</sub>	X <sub>2</sub>	X <sub>3</sub>	X <sub>4</sub>	X <sub>5</sub>	Y <sub>1</sub>	Y <sub>2</sub>	Y <sub>3</sub>	Y <sub>1</sub>	Y <sub>2</sub>	Y <sub>3</sub>
NanoE1	5	10	5	40	40	141.29± 14.31	89.66± 3.64	0.449 ± 0.035	140.17	89.88	0.445
NanoE2	10	10	5	40	40	93.33 ± 14.49	86.81 ± 0.61	0.467 ± 0.033	93.92	86.69	0.469
NanoE3	5	20	5	40	40	166.33 ± 16.38	89.87 ± 0.59	0.436 ± 0.034	166.85	89.75	0.438
NanoE4	10	20	5	40	40	53.02 ± 15.26	88.37 ± 0.58	0.464 ± 0.036	53.47	88.28	0.466
NanoE5	5	10	10	40	50	93.64 ± 6.48	98.64 ± 0.37	0.263 ± 0.021	95.86	99.01	0.276
NanoE6	10	10	15	40	40	186.38 ± 9.97	80.82 ± 0.76	0.367 ± 0.029	186.70	80.75	0.368
NanoE7	5	20	15	40	40	115.59 ± 8.21	91.94 ± 0.63	0.358 ± 0.029	115.91	91.87	0.359
NanoE8	10	20	15	40	40	144.96 ± 9.67	87.48 ± 0.49	0.341 ± 0.038	145.34	87.40	0.342
NanoE9	5	10	5	80	40	136.83	90.18	0.292	137.42	90.06	0.294
NanoE10	10	10	5	80	40	112.43	94.87	0.359	112.88	94.78	0.361
NanoE11	5	20	5	80	40	180.62	88.48	0.391	181.07	88.39	0.393
NanoE12	10	20	5	80	40	90.94	94.52	0.467	89.40	94.83	0.462
NanoE13	5	10	15	80	40	50.85	83.30	0.342	51.17	83.23	0.344
NanoE14	10	10	15	80	40	169.06	85.02	0.364	169.44	84.94	0.366

NanoE15	5	20	15	80	40	93.53	86.69	0.419	93.91	86.61	0.420
NanoE16	10	20	15	80	40	146.46	89.77	0.450	145.04	90.05	0.446
NanoE17	5	10	5	40	60	134.27	95.90	0.382	130.33	96.69	0.369
NanoE18	10	10	5	40	60	92.63	90.91	0.375	91.86	91.06	0.372
NanoE19	5	20	5	40	60	165.56	90.59	0.442	164.79	90.75	0.440
NanoE20	10	20	5	40	60	58.63	86.95	0.445	59.17	86.84	0.447
NanoE21	5	10	15	40	60	87.63	97.97	0.282	83.42	98.82	0.267
NanoE22	10	10	15	40	60	188.60	90.01	0.230	187.75	90.18	0.227
NanoE23	5	20	15	40	60	117.80	97.76	0.320	116.96	97.93	0.317
NanoE24	10	20	15	40	60	153.49	91.16	0.277	154.16	91.02	0.279
NanoE25	5	10	5	80	60	136.13	91.01	0.337	135.36	91.17	0.335
NanoE26	10	10	5	80	60	118.04	93.56	0.378	118.59	93.45	0.380
NanoE27	5	20	5	80	60	186.24	83.79	0.509	186.78	83.68	0.511
NanoE28	10	20	5	80	60	102.87	87.69	0.559	102.87	87.68	0.559
NanoE29	5	10	15	80	60	53.06	89.22	0.343	52.22	89.39	0.340
NanoE30	10	10	15	80	60	177.59	88.80	0.339	178.26	88.67	0.341
NanoE31	5	20	15	80	60	102.06	87.10	0.492	102.73	86.96	0.495

NanoE32	10	20	15	80	60	161.30	88.03	0.498	161.63	87.96	0.499
<b>Axial Points</b>											
NanoE33	1.553964	15	10	60	60	118.59 ± 5.47	92.25 ± 0.69	0.519 ± 0.026	117.46	92.51	0.515
NanoE34	13.44604	15	10	60	60	132.00 ± 8.35	89.97 ± 0.78	0.548 ± 0.027	132.52	89.91	0.549
NanoE35	7.5	3.107929	10	60	50	120.12 ± 15.42	92.89 ± 0.51	0.187 ± 0.039	119.01	93.16	0.183
NanoE36	7.5	26.89207	10	60	50	130.45 ± 21.65	92.22 ± 0.46	0.361 ± 0.046	130.97	92.16	0.362
NanoE37	7.5	15	1.89207	60	50	120.01 ± 19.18	93.99 ± 0.43	0.542 ± 0.058	119.80	93.84	0.455
NanoE38	7.5	15	21.89207	60	50	130.56 ± 8.56	90.80 ± 0.54	0.313 ± 0.030	130.18	90.68	0.315
NanoE39	7.5	15	10	12.43172	50	123.29	93.60	0.256	122.18	93.87	0.251
NanoE40	7.5	15	10	107.5683	50	127.28	90.51	0.332	127.80	90.45	0.334
NanoE41	7.5	15	10	60	26.21586	120.63	81.76	0.529	120.97	81.73	0.529
NanoE42	7.5	15	10	60	73.78414	129.94	87.12	0.506	129.01	87.35	0.502
<b>Centre Points</b>											
NanoE43	7.5	15	10	60	50	129.64 ± 8.98	82.02 ± 0.68	0.335 ± 0.027	124.99	82.11	0.333
NanoE44	7.5	15	10	60	50	129.64 ± 8.98	82.02 ± 0.68	0.335 ± 0.027	124.99	82.11	0.333
NanoE45	7.5	15	10	60	50	129.64 ± 8.98	82.02 ± 0.68	0.335 ± 0.027	124.99	82.11	0.333
NanoE46	7.5	15	10	60	50	129.64 ± 8.98	82.02 ± 0.68	0.335 ± 0.027	124.99	82.11	0.333
NanoE47	7.5	15	10	60	50	129.64 ± 8.98	82.02 ± 0.68	0.335 ± 0.027	124.99	82.11	0.333

NanoE48	7.5	15	10	60	50	$129.64 \pm 8.98$	$82.02 \pm 0.68$	$0.335 \pm 0.027$	124.99	82.11	0.333
NanoE49	7.5	15	10	60	50	$129.64 \pm 8.98$	$82.02 \pm 0.68$	$0.335 \pm 0.027$	124.99	82.11	0.333
NanoE50	7.5	15	10	60	50	$129.64 \pm 8.98$	$82.02 \pm 0.68$	$0.335 \pm 0.027$	124.99	82.11	0.333