

Results

Figures

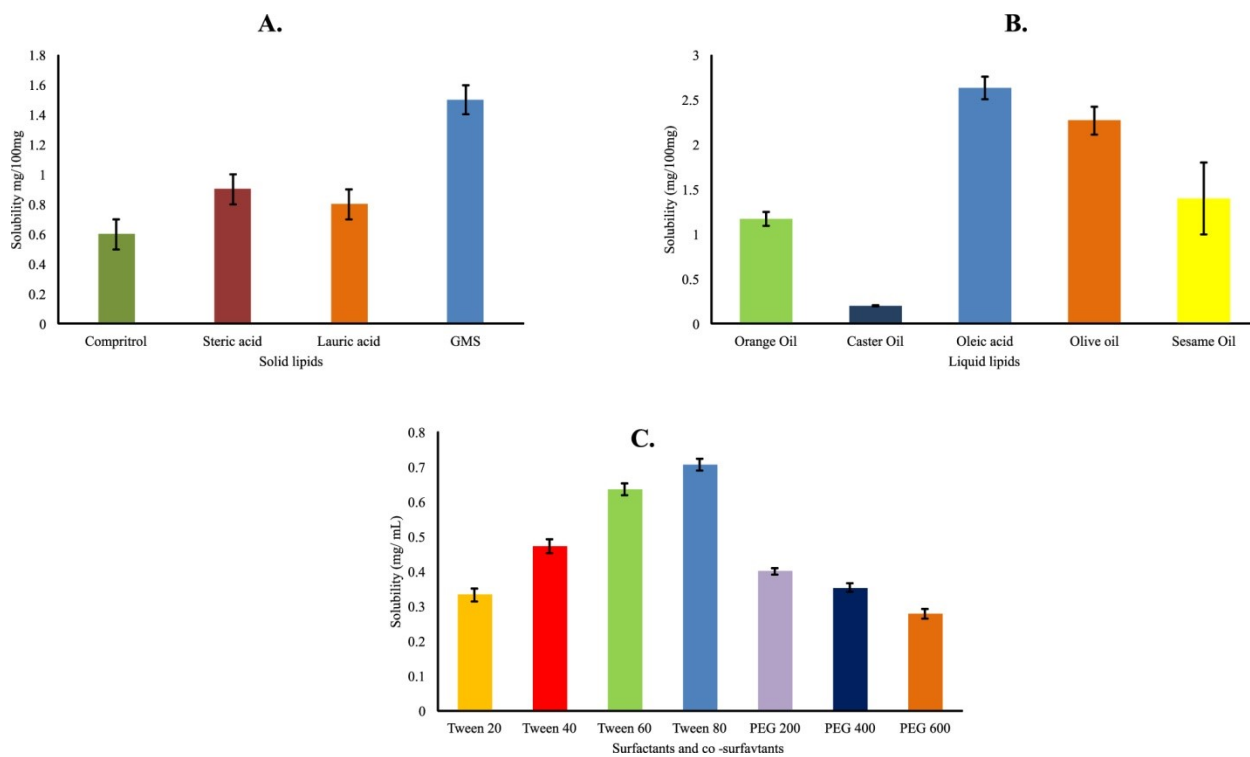
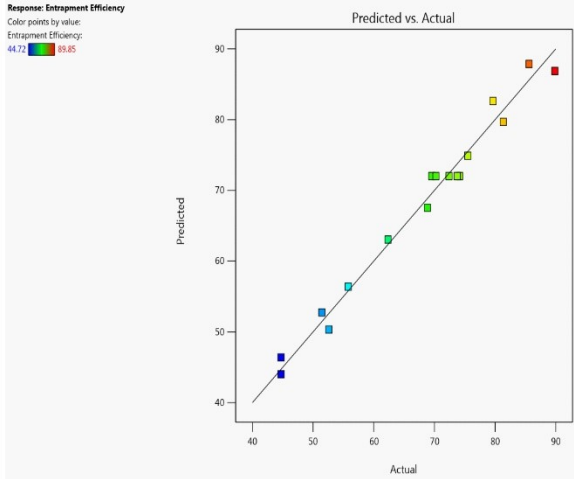


Fig S1. Solubility of ABZ in different NLCs components

A.



B.

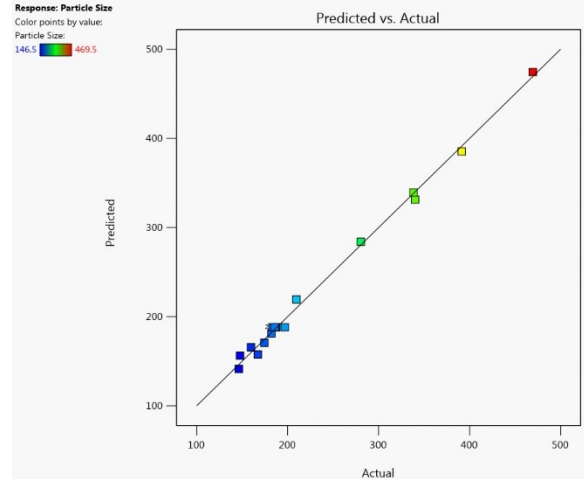


Fig S2. Actual vs predicted plot for response **A)** Y_1 and **B)** Y_2

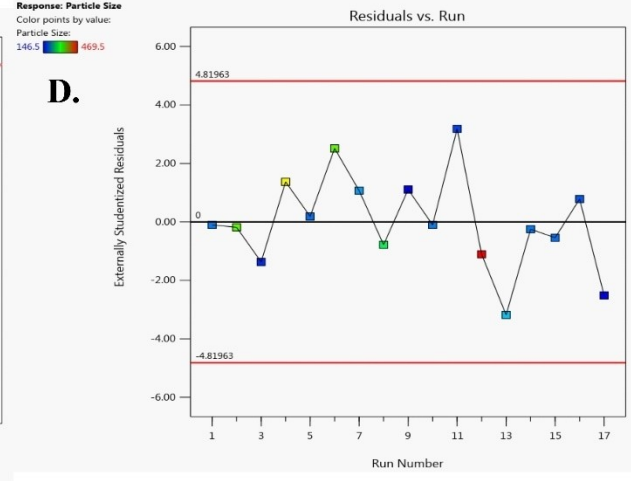
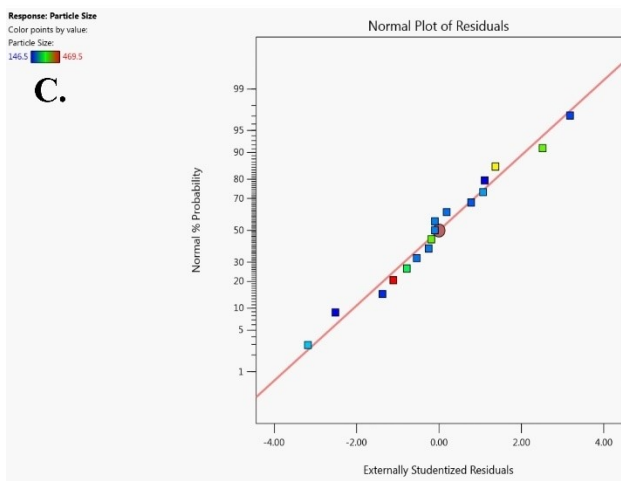
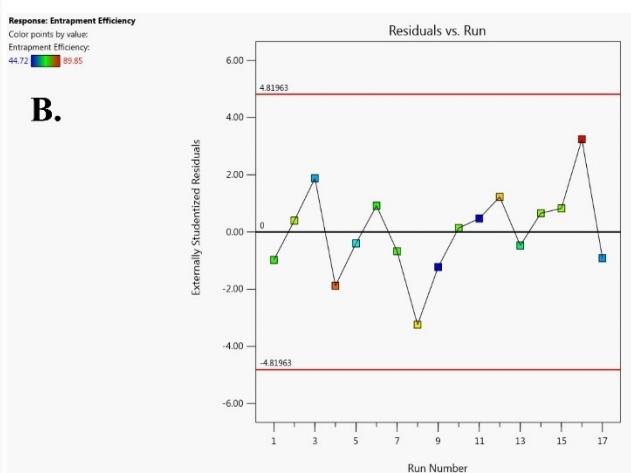
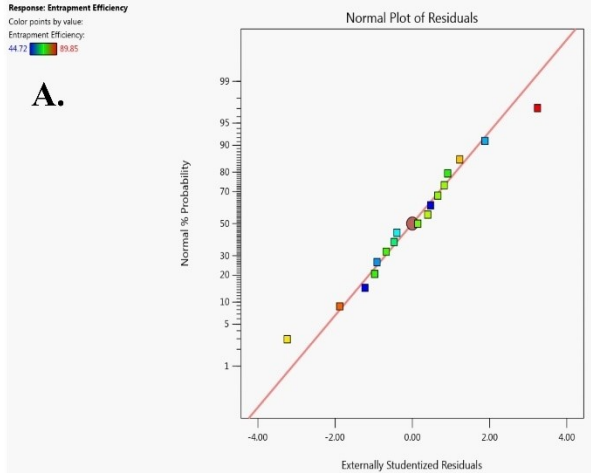


Fig S3. Model of diagnosis plots for responses Y_1 (A-B) and Y_2 (C-D)

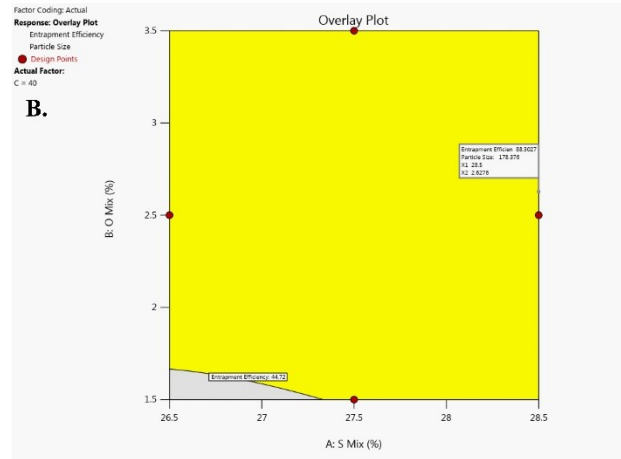
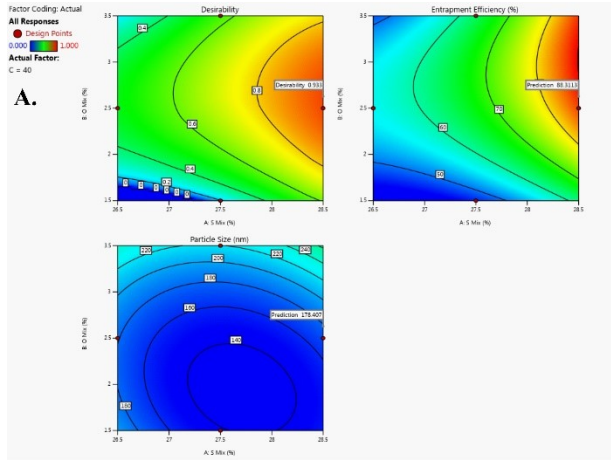


Fig S4. Plots of **A)** Numerical optimization and **B)** Graphical optimization

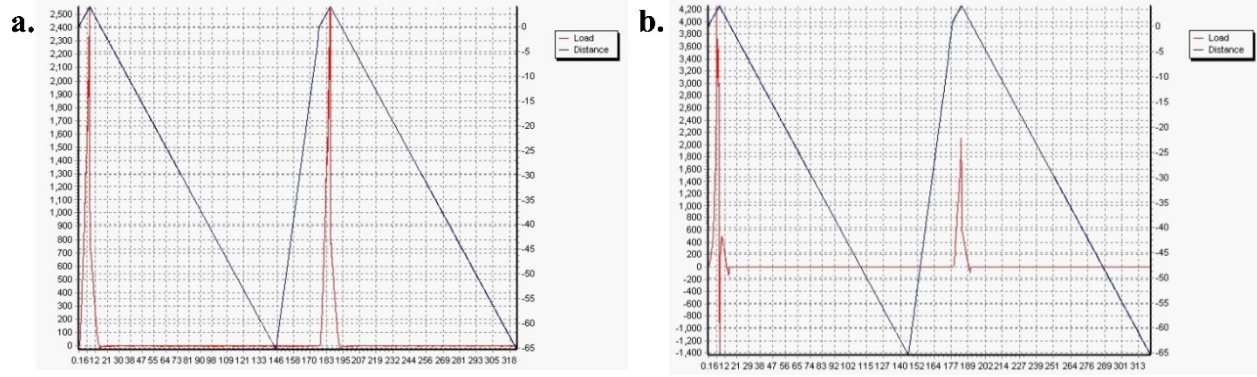


Fig S5. Texture analysis **a)** ABZ NLC-based gel and **b)** ABZ conventional gel

Table S1. ANOVA results for responses Y_1 and Y_2

Source	Response Y_1				Response Y_2			
	Coeff.	Sum of Square	F- value	p-value	Coeff.	Sum of squares	F-value	p-value
Model	+72.02	1.464	192.41	< 0.0001	+188.20	16262.95	192.41	< 0.0001
X_1	+13.08	1369.21	172.34	< 0.0001	+98.68	77894.04	921.56	< 0.0001
X_2	+5.69	258.78	32.57	0.0007	+11.19	1001.28	11.85	0.0108
X_3	-3.56	101.53	12.78	0.0090	-67.84	36815.41	435.56	< 0.0001
X_1X_2	+4.47	80.10	10.08	0.0156	+15.85	1004.89	11.89	0.0107
X_1X_3	-4.75	90.25	11.36	0.0119	-59.75	14280.25	168.95	< 0.0001
X_2X_3	+9.55	364.81	45.92	0.0003	-16.43	1079.12	12.77	0.0091
X_1^2	-12.16	622.08	78.30	< 0.0001	+37.96	6068.01	71.79	< 0.0001
X_2^2	+4.76	95.40	12.01	0.0105	+33.59	4749.98	56.20	0.0001
X_3^2	-1.58	10.51	1.32	0.2878	+22.09	2054.14	24.30	0.0017
Residual		55.61				591.67		
Cor Total		3030.85				1.470		