

Supplementary material

Table 1. Experimental data obtained for the central composite design (CCD) of pea protein nanoemulsions

CCD variables and responses for the pea protein NE				
Experiment	Oil (%)	Pea Protein (%)	Z-average diameter (nm)	PDI
1	1.00	1.00	475.90 ± 24.11	0.49 ± 0.10
2	5.00	1.00	1257.33 ± 596.27	0.85 ± 0.13
3	1.00	10.00	228.35 ± 9.49	0.25 ± 0.01
4	5.00	10.00	377.23 ± 14.99	0.32 ± 0.02
5	3.00	5.50	404.23 ± 15.77	0.33 ± 0.06
6	3.00	5.50	460.17 ± 18.75	0.39 ± 0.04
7	3.00	5.50	471.42 ± 40.86	0.44 ± 0.11

Table 2. Experimental data obtained for the central composite design (CCD) of potato protein nanoemulsions

CCD variables and responses for the potato protein NE				
Experiment	Oil (%)	Potato Protein (%)	Z-average diameter (nm)	PDI
1	1.00	1.00	259.62 ± 30.71	0.54 ± 0.12
2	5.00	1.00	1150.87 ± 459.50	0.84 ± 0.14
3	1.00	10.00	271.67 ± 12.04	0.37 ± 0.01
4	5.00	10.00	605.12 ± 36.26	0.54 ± 0.05
5	3.00	5.50	541.98 ± 36.64	0.54 ± 0.09
6	3.00	5.50	499.40 ± 61.74	0.53 ± 0.08
7	3.00	5.50	544.33 ± 54.70	0.57 ± 0.05

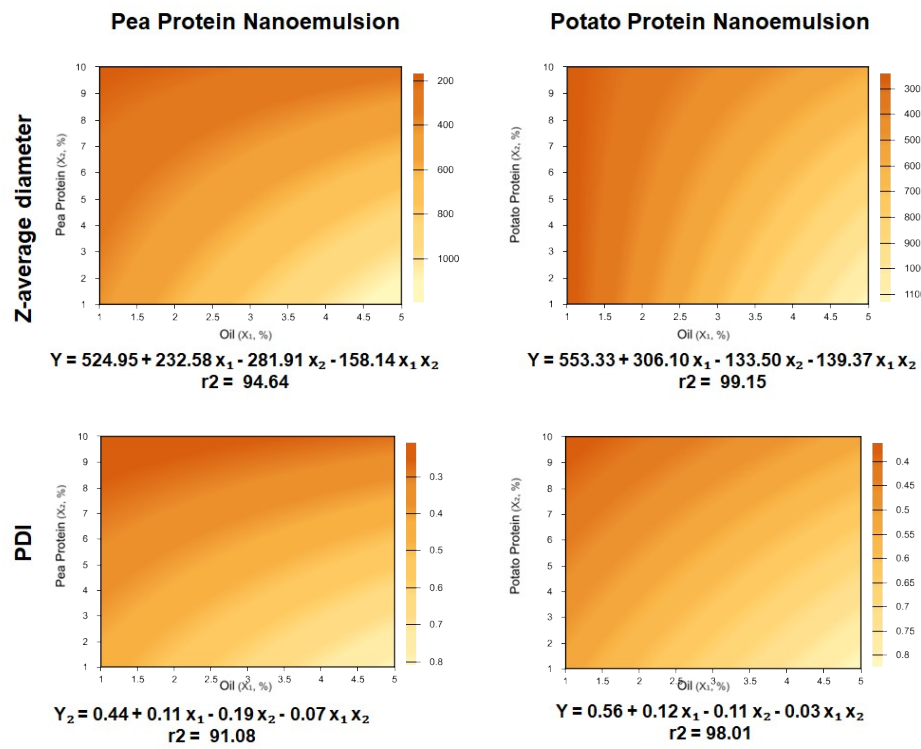


Figure 1. Response surface plots showing the effects of oil and protein concentrations on the Z-average diameter and PDI for pea and potato protein nanoemulsion, regression equation and determination coefficient (r^2).