

Online Resource 4

ANOVA for the quadratic equations of Design Expert 9.0.6 for the enrichment of oleuropein in olive oil.

Source	Sum of Squares	df	Mean Square	F value	P-value Prob>F
Model	424.95	9	47.22	9.07	0.0009
X ₁ -Speed	3.56	1	3.56	0.68	0.4278
X ₂ -Time	205.57	1	205.57	39.50	< 0.0001
X ₃ -Mass	0.066	1	0.066	0.013	0.9128
X ₁ X ₂	11.13	1	11.13	2.14	0.1743
X ₁ X ₃	16.82	1	16.82	3.23	0.1024
X ₂ X ₃	6.95	1	6.95	1.34	0.2745
X ₁ ²	2.66	1	2.66	0.51	0.4912
X ₂ ²	7.55	1	7.55	1.45	0.2560
X ₃ ²	82.45	1	82.45	15.85	0.0026
Residual	52.04	10	5.20		
Lack of Fit	51.78	5	10.36	203.12	< 0.0001
Pure Error	0.25	5	0.051		
Cor Total	476.98	19			