

SUPPLEMENTARY MATERIAL TO  
**Anticorrosion action of the olive leaf compounds extracted  
under optimal parameters as determined with  
experimental design**

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TABLE S-I. Experimental design table for independent variables and the antioxidant activity

Experiment	$X_1$	$X_2$	$X_3$	$X_4$	AA / %	$Y_i$ / %
1	-1	-1	-1	-1	73.50	71.03
2	1	-1	-1	-1	63.88	65.30
3	-1	1	-1	-1	52.43	56.30
4	1	1	-1	-1	48.93	45.83
5	-1	-1	1	-1	81.84	81.39
6	1	-1	1	-1	79.90	81.12
7	-1	1	1	-1	79.22	77.99
8	1	1	1	-1	72.82	72.99
9	-1	-1	-1	1	58.64	62.19
10	1	-1	-1	1	63.79	61.00
11	-1	1	-1	1	53.50	48.26
12	1	1	-1	1	38.16	42.34
13	-1	-1	1	1	74.85	73.93
14	1	-1	1	1	78.35	78.21
15	-1	1	1	1	69.03	71.34
16	1	1	1	1	72.43	70.89
17	0	0	0	0	66.60	66.26
18	0	0	0	0	65.83	66.26
19	0	0	0	0	66.12	66.26
20	0	0	0	0	65.34	66.26

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TABLE S-II. ANOVA analysis

Source	DF	SS	MS	F	P
Regression	10	2362	236.2	19.16	0.000
Residual	9	110.94	12.33	-	-
Lack of fit	6	110.11	18.35	65.62	0.003
Pure error	3	0.84	0.28	-	-
$R^2$	0.955	-	-	-	-
$R^2_{Adj}$	0.905	-	-	-	-

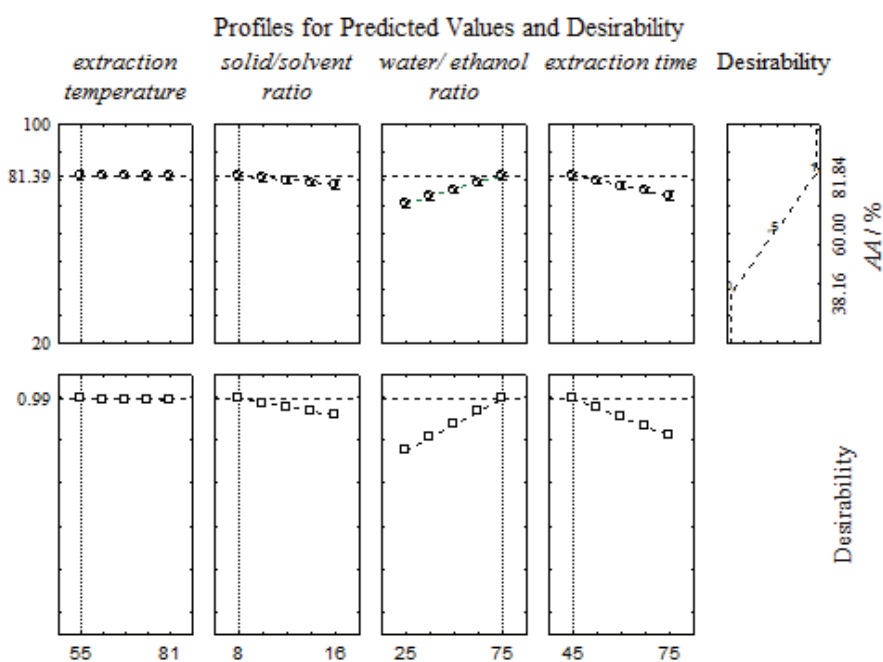


Fig S-1. Prediction profiler at maximal desirability.