

Table S1. Analysis of variance (ANOVA) and coefficients of determination (R²) for the fitted model equations of contents of TPC and DPPH for β -CD and HP- β -CD extractions.

β -CD					
TPC					
R ² =0.9594, R ² _A = 0.945, R ² _P =0.919					
Source	DF	SS	MS	F value	P value
Model	6	1316.92	219.49	66.88	0.000
Lack of fit	1	0.00	0.00	0.00	0.988
Pure Error	16	55.79	3.49		
TFC					
R ² = 0.9279, R ² _A = 0.9024, R ² _P =0.8562					
Source	DF	SS	MS	F value	P value
Model	6	0.001093	0.000182	36.44	0.000
Lack of fit	1	0.000084	0.000084	1626.80	0.000
Pure Error	16	0.000001	0.000000		
DPPH scavenging activity					
R ² =0.8711, R ² _A = 0.8256, R ² _P =0.7431					
Source	DF	SS	MS	F value	P value
Model	6	0.83786	0.139643	19.15	0.000
Lack of fit	1	0.10457	0.104570	86.17	0.000
Pure Error	16	0.01942	0.001214		
FRAP					
R ² =0.9610, R ² _A = 0.9473, R ² _P = 0.9224					
Source	DF	SS	MS	F value	P value
Model	6	0.001627	0.000271	69.90	0.000
Lack of fit	1	0.000060	0.000060	149.29	0.000
Pure Error	16	0.000006	0.000000		
HP- β -CD					
TPC					
R ² =0.7726, R ² _A = 0.6923, R ² _P =0.5467					

Source	DF	SS	MS	F value	P value
Model	6	2076.26	346.044	9.62	0.000
Lack of fit	1	499.50	499.502	71.51	0.000
Pure Error	16	111.76	6.985		

TFC

$R^2 = 0.8253$, $R^2_A = 0.7613$, $R^2_P = 0.6483$

Source	DF	SS	MS	F value	P value
Model	6	0.000167	0.000028	13.22	0.000
Lack of fit	1	0.000033	0.000033	201.03	0.000
Pure Error	16	0.000003	0.000000		

DPPH scavenging activity

$R^2 = 0.8006$, $R^2_A = 0.7302$, $R^2_P = 0.6025$

Source	DF	SS	MS	F value	P value
Model	6	0.84167	0.140278	11.37	0.000
Lack of fit	1	0.20299	0.202990	485.73	0.000
Pure Error	16	0.00669	0.000418		

FRAP

$R^2 = 0.9978$, $R^2_A = 0.9970$, $R^2_P = 0.9955$

Source	DF	SS	MS	F value	P value
Model	6	0.002022	0.000337	1265.07	0.000
Lack of fit	1	0.000000	0.000000	1.43	0.250
Pure Error	16	0.000004	0.000000		

SS= Sum of squares, DF= degrees of freedom, MS= mean of squares, R^2_A = adjusted R^2 , R^2_P = predicted R^2