

Supplementary Material

Table S1. Independent variables their levels used for BBD.

Variables	Level		
	-1	0	1
Sample concentration X_1 (mg/mL)	1.0	1.5	2.0
Sample volume X_2 (mL)	10	20	30
Ethanol concentration X_3 (%)	50	60	70

Table S2. Regression coefficients of the predicted quadratic polynomial model.

Source	SS ^a	DF ^b	MS ^c	F-Value	Prob-Value
X_1	63.96	1	63.96	276.26	<0.0001
X_2	44.46	1	44.46	192.05	<0.0001
X_3	26.50	1	26.50	114.46	0.0001
X_1 - X_2	6.35	1	6.35	27.43	0.0034
X_1 - X_3	4.08	1	4.08	17.62	0.0085
X_2 - X_3	2.53	1	2.53	10.92	0.0241
X_1^2	71.46	1	71.46	308.65	<0.0001
X_2^2	88.08	1	88.08	380.45	<0.0001
X_3^2	44.05	1	44.05	190.29	<0.0001

^a: Sums of squares; ^b: Sums of squares; ^c: Mean square.

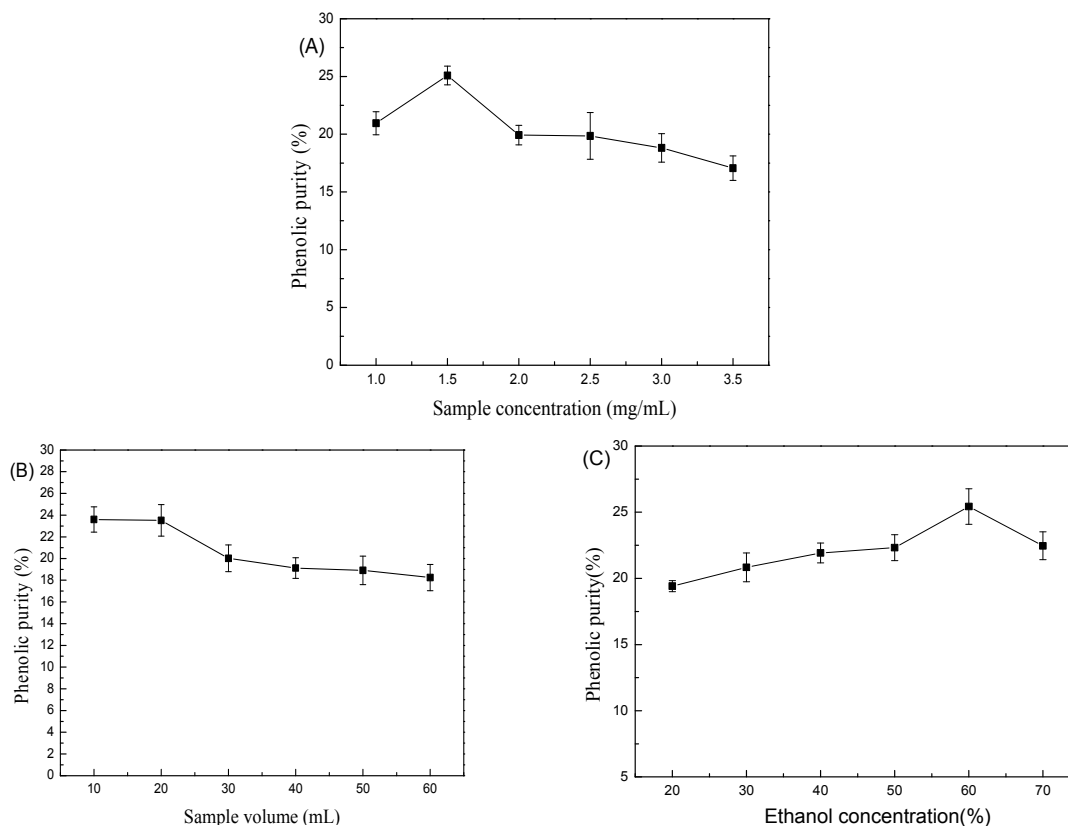


Figure S1. Effects of different purification parameters on purity of PPP (sample concentration, mg/mL; sample volume, mL; ethanol concentration, %).