

Table S4 Central Composite experimental design matrix and experimental results

	X ₁	X ₂	X ₃	Y ₁	Y ₂
Run	Concentration of UCON	Concentration of K ₂ C ₄ H ₄ O ₆	Temperature	Partition efficiency of flavonoids (%)	Partition efficiency of corn silk polysaccharide (%)
1	-1.00	-1.00	-1.00	65.87	76.05
2	-1.00	-1.00	1.00	72.96	80.11
3	0.00	0.00	0.00	77.56	87.57
4	0.00	0.00	0.00	77.63	87.11
5	-1.00	1.00	1.00	85.03	79.82
6	-1.00	1.00	-1.00	80.39	74.31
7	1.00	1.00	1.00	92.62	81.88
8	0.00	0.00	0.00	77.48	85.65
9	0.00	1.68	0.00	79.48	81.30
10	0.00	0.00	1.68	88.12	88.59
11	1.68	0.00	0.00	73.23	85.16
12	0.00	0.00	-1.68	64.37	79.23
13	1.00	1.00	-1.00	87.39	77.63
14	1.00	-1.00	1.00	80.31	85.66
15	1.00	-1.00	-1.00	72.26	77.96
16	0.00	0.00	0.00	76.13	83.19
17	0.00	0.00	0.00	86.08	88.05
18	-1.68	0.00	0.00	73.23	85.16
19	0.00	-1.68	0.00	46.21	70.11
20	0.00	0.00	0.00	74.09	87.87