

Table S1. Inhibitory effects of arbutin on the activity of tyrosinase and oxidation of L-DOPA.

Arbutin (μM)	Inhibition rate of tyrosinase activity (%)	Inhibition rate of L-DOPA oxidation (%)
0	0	0
72	44.25 ± 2.39	-
360	74.81 ± 7.54	-
720	70.74 ± 4.76	-
900	73.88 ± 5.39	46.28 ± 0.40
1,835	83.57 ± 6.74	50.80 ± 4.11
3,670	- ^a	63.01 ± 6.81
7,340	-	73.34 ± 5.36
11,010	-	73.21 ± 1.77
14,680	-	88.22 ± 2.25

^a: No measurement. IC_{50} concentration of arbutin to inhibit tyrosinase activity: $126 \pm 23.11 \mu\text{M}$. IC_{50} concentration of arbutin to inhibit L-DOPA oxidation: $3,279.74 \pm 17.14 \mu\text{M}$.