

Table S1. β -carotene bleaching inhibiting activity

Time	Absorbance at 492 nm												
	0 (min)	15 (min)	30 (min)	45 (min)	60 (min)	75 (min)	90 (min)	105 (min)	120 (min)	135 (min)	150 (min)	165 (min)	180 (min)
BHT	0.571	0.559	0.545	0.532	0.527	0.522	0.519	0.516	0.513	0.510	0.508	0.505	0.503
Control	0.571	0.138	0.058	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
M1	0.571	0.552	0.526	0.508	0.494	0.482	0.469	0.459	0.449	0.439	0.429	0.420	0.412
M2	0.571	0.556	0.534	0.521	0.511	0.503	0.496	0.491	0.485	0.480	0.475	0.470	0.466
M3	0.571	0.558	0.534	0.519	0.508	0.500	0.494	0.488	0.483	0.478	0.473	0.468	0.464
M4	0.571	0.558	0.534	0.518	0.508	0.500	0.495	0.489	0.484	0.479	0.475	0.470	0.466
M5	0.571	0.558	0.540	0.517	0.506	0.495	0.487	0.480	0.473	0.467	0.461	0.455	0.449
M6	0.571	0.558	0.543	0.525	0.511	0.501	0.492	0.485	0.479	0.470	0.465	0.459	0.453
M7	0.571	0.556	0.534	0.510	0.487	0.469	0.453	0.439	0.427	0.414	0.403	0.392	0.382
M8	0.571	0.557	0.538	0.522	0.510	0.503	0.495	0.489	0.484	0.479	0.474	0.468	0.463
M9	0.571	0.557	0.537	0.522	0.510	0.499	0.493	0.487	0.482	0.477	0.471	0.467	0.461
M10	0.571	0.561	0.534	0.526	0.520	0.515	0.511	0.508	0.505	0.502	0.499	0.496	0.493
M11	0.571	0.558	0.540	0.520	0.505	0.494	0.489	0.483	0.477	0.471	0.468	0.463	0.457
M12	0.571	0.557	0.542	0.525	0.509	0.499	0.496	0.487	0.481	0.474	0.468	0.462	0.458
M13	0.571	0.557	0.539	0.520	0.507	0.498	0.491	0.484	0.478	0.473	0.467	0.460	0.454
M14	0.571	0.558	0.535	0.518	0.508	0.498	0.491	0.483	0.478	0.471	0.466	0.459	0.454
M15	0.571	0.552	0.532	0.511	0.498	0.481	0.472	0.459	0.447	0.432	0.420	0.412	0.402
M16	0.571	0.557	0.536	0.515	0.501	0.489	0.480	0.471	0.463	0.455	0.448	0.441	0.434
M17	0.571	0.558	0.538	0.519	0.506	0.497	0.490	0.484	0.478	0.473	0.468	0.463	0.457
M18	0.571	0.557	0.532	0.513	0.500	0.488	0.479	0.470	0.461	0.453	0.447	0.439	0.432
M19	0.571	0.554	0.528	0.512	0.502	0.492	0.483	0.474	0.466	0.456	0.449	0.440	0.432
M20	0.571	0.552	0.527	0.511	0.499	0.490	0.484	0.477	0.470	0.463	0.458	0.452	0.446
M21	0.571	0.555	0.534	0.512	0.495	0.481	0.471	0.461	0.451	0.443	0.435	0.427	0.419
M22	0.571	0.560	0.539	0.528	0.520	0.514	0.510	0.504	0.500	0.495	0.490	0.487	0.483
M23	0.571	0.563	0.534	0.519	0.509	0.499	0.491	0.484	0.477	0.472	0.467	0.462	0.456
M24	0.571	0.557	0.540	0.522	0.510	0.501	0.497	0.489	0.484	0.478	0.474	0.468	0.464
M25	0.571	0.551	0.525	0.510	0.498	0.489	0.480	0.473	0.466	0.458	0.451	0.444	0.437
M26	0.571	0.554	0.530	0.519	0.509	0.500	0.493	0.485	0.479	0.472	0.467	0.461	0.456

Table S2. EtOAc extracts, and BHT measured by reducing power method.

Extraction	Absorbance at 700 nm		
	0.1 (mg/mL)	0.5 (mg/mL)	1.0 (mg/mL)
MeOH		0.373±0.003	
BHT	0.373±0.008	0.617±0.003	0.924±0.004
M1	0.335±0.005	0.543±0.003	0.860±0.004
M2	0.373±0.008	0.666±0.003	1.048±0.004
M3	0.356±0.013	0.607±0.003	0.962±0.004
M4	0.416±0.012	0.702±0.003	1.085±0.004
M5	0.369±0.011	0.703±0.003	1.022±0.004
M6	0.336±0.002	0.642±0.003	1.023±0.004
M7	0.344±0.011	0.649±0.003	1.063±0.004
M8	0.333±0.004	0.584±0.003	0.939±0.004
M9	0.334±0.004	0.593±0.003	0.958±0.004
M10	0.374±0.003	0.705±0.003	1.145±0.004
M11	0.335±0.005	0.571±0.003	0.928±0.004
M12	0.333±0.003	0.613±0.003	0.956±0.004
M13	0.354±0.004	0.684±0.003	0.977±0.004
M14	0.357±0.009	0.635±0.003	1.033±0.004
M15	0.356±0.015	0.690±0.003	1.090±0.004
M16	0.386±0.006	0.770±0.003	1.198±0.004
M17	0.335±0.010	0.578±0.003	1.001±0.004
M18	0.472±0.009	1.228±0.003	2.478±0.004
M19	0.352±0.007	0.720±0.003	1.268±0.004
M20	0.334±0.003	0.582±0.003	1.020±0.004
M21	0.328±0.002	0.529±0.003	0.911±0.004
M22	0.399±0.009	0.811±0.003	1.358±0.004
M23	0.341±0.006	0.614±0.003	1.021±0.004
M24	0.341±0.001	0.640±0.003	1.249±0.004
M25	0.465±0.003	1.192±0.003	2.174±0.004
M26	0.342±0.004	0.588±0.003	0.964±0.004