

Table S1. Content of total phenols, flavonoids, and antioxidant activity of flavonoids free-radical scavenging (DPPH and ABTS) and ferric reducing antioxidant power (FRAP) in methanol-extracted air- and freeze-dried mangosteen peel nanoparticles.

Name of sample	T. Phenols (mg gallic acid/g sample) M ± SD	T. Flavonoids (mg catechin/g sample) M ± SD	DPPH (%) M ± SD	ABTS (g trolox/g sample) M ± SD	FRAP (g trolox/g sample) M ± SD
Air-dried mangosteen peel	401.303 ± 14.498	1.057 ± 0.119	94.775 ± 0.122	13.075 ± 0.534	5.728 ± 0.152
Air-dried mangosteen peel nanoparticles	479.744 ± 2.564	4.711 ± 0.207	94.303 ± 0.074	16.069 ± 0.424	6.696 ± 0.085
Freeze-dried Mangosteen peel	815.311 ± 3.935	15.394 ± 1.496	94.643 ± 0.128	29.943 ± 0.058	12.982 ± 0.368
Freeze-dried mangosteen peel nanoparticles	1112.646 ± 1.842	14.154 ± 0.119	95.707 ± 0.070	42.753 ± 0.200	17.806 ± 0.056

Values are means of three replicates. Results were given as mean ± SD.

10¹⁰ CFU/ml

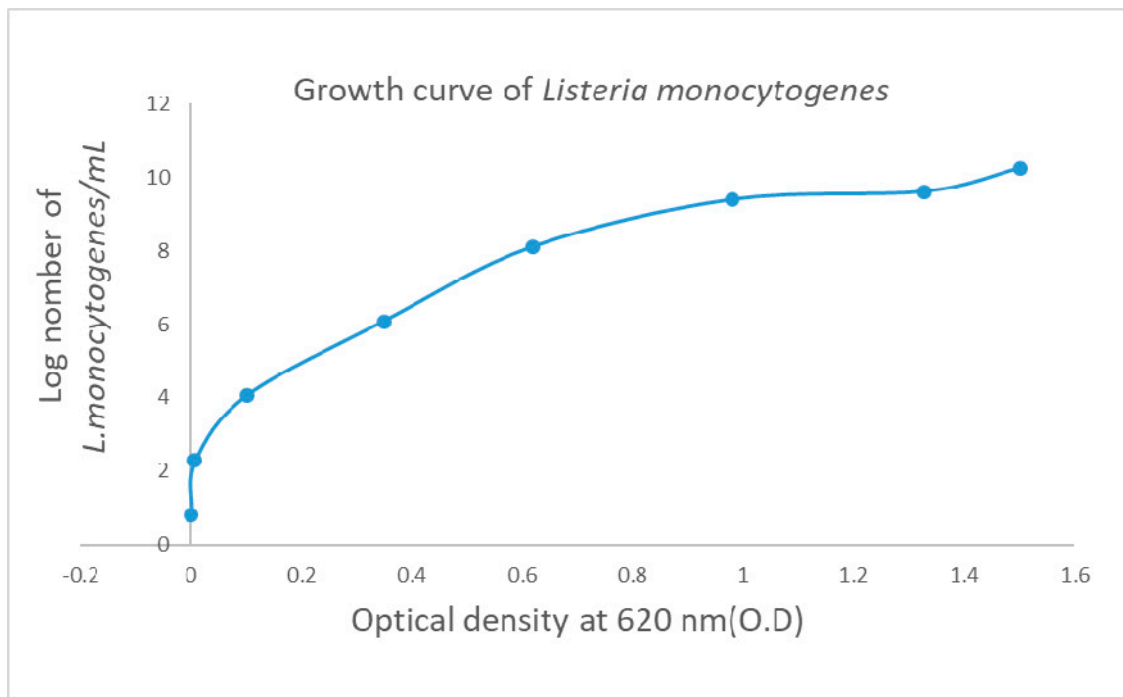


Figure S1. Total viable count of *Listeria monocytogenes* ATCC 19114 against Optical density at 620 nm.

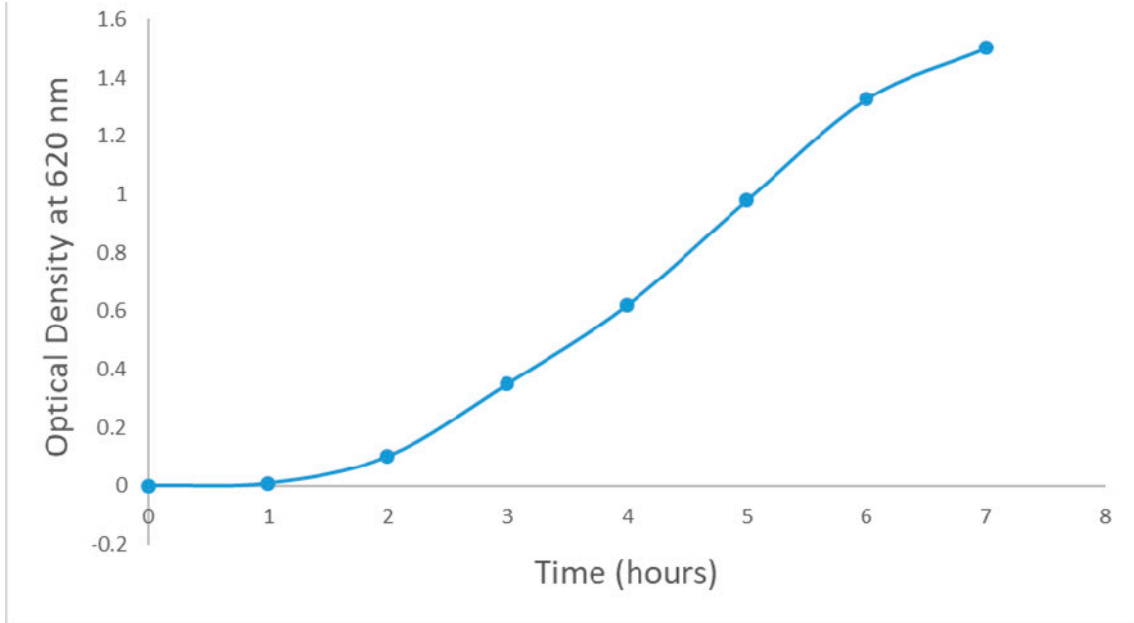


Figure S2: optical density of *Listeria monocytogenes* ATCC 19114 at 620 nm at different time per hours.