

**Table S1. Catechin contents of aqueous extract of leaf green tea and matcha green tea. <sup>1)</sup>**

	(Unit: mg/g)				
	EGC	EC	EGCG	ECG	Total catechin
Leaf green tea	39.27±0.58 <sup>b</sup>	5.22±0.21 <sup>b</sup>	38.18±0.08 <sup>b</sup>	10.57±0.07 <sup>b</sup>	93.24±0.33 <sup>b</sup>
Matcha green tea	49.49±0.12 <sup>a</sup>	8.74±0.06 <sup>a</sup>	50.24±0.57 <sup>a</sup>	13.75±0.11 <sup>a</sup>	122.22±0.21 <sup>a</sup>

Results are mean±SD (n=3). Data were statistically represented at  $p<0.05$ , and different small alphabets mean statistical significance.

**Table S2. Antioxidant capacity of aqueous extract of leaf green tea and matcha green tea. <sup>1)</sup>**

	TPC <sup>1</sup>	TFC <sup>2</sup>	ABTS <sup>3</sup>	DPPH <sup>4</sup>	MDA <sup>5</sup>
Leaf green tea	235.92±1.25 <sup>b</sup>	83.87±1.03 <sup>b</sup>	310.48±2.48 <sup>a</sup>	380.98±5.15 <sup>a</sup>	68.15±3.57 <sup>a</sup>
Matcha green tea	325.00±7.35 <sup>a</sup>	104.24±5.17 <sup>a</sup>	276.56±4.25 <sup>b</sup>	321.05±3.24 <sup>b</sup>	59.98±2.48 <sup>b</sup>

<sup>1</sup>TPC, total phenolic content; <sup>2</sup>TFC, total flavonoid content; <sup>3</sup>ABTS, ABTS radical scavenging activity; <sup>4</sup>DPPH, DPPH radical scavenging activity; <sup>5</sup>MDA, malondialdehyde (MDA) inhibitory effect. Results shown are mean±SD (n=3). Data were statistically represented at  $p<0.05$ , and different small alphabets mean statistical significance. Results of TPC and TFC are presented as mg of GAE/g and mg of RE/g, respectively. Results of ABTS, DPPH and MDA are presented as IC<sub>50</sub> value (µg/mL).

<sup>1)</sup> Kim, J. M. et al., (2021). Protective effect of matcha green tea (*Camellia sinensis*) extract on high glucose-and oleic acid-induced hepatic inflammatory effect. Korean Journal of Food Science and Technology, 53(3), 267-277.