

# Supplementary material 1

**Table S1** Biological activities including antioxidant, acetylcholinesterase suppression activity (AChEI), monoamine oxidase suppression activity (MAOI), and cyclo-oxygenase II (COX II) suppression activity of placebo soup and JW6601 soup.

Biological activity EC50 (µg/mL)	Bael syrup	Banana-derived resistant starch	Green natural colorant from the mixture of kale and celery	Placebo	RJ6601
DPPH	56.14±0.33	105.29±0.88	3.19±0.45	48.29±0.05	13.42±0.18
AChEI	21.71±0.38	73.10±0.57	7.76±0.39	43.62±0.03	19.39±0.04
MAOI	34.78±0.31	95.17±0.88	42.63±1.62	17.42±0.02	12.37±0.04
COX-2 inhibitor	11.78±0.69	52.90±0.85	13.54±0.01	118.68	38.97±0.05

According to this table , our data showed that EC50 of antioxidant activity assessed by using DPPH assay revealed that RJ6601 showed lower EC50 than bael syrup, banana-derived resistant starch and green natural colorant from the mixture of kale and celery. Furthermore, MAOI also showed the same pattern of change.