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**Determination of the antioxidant activity of *Averrhoa carambola* (Star fruit) in**

**Sri Lanka**

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*Averrhoa carambola* (star fruit) is an underutilized tropical fruit, found mostly in Southeast Asia including Sri Lanka. Star fruit is rich in antioxidant properties and has provided a remarkable contribution to medicine and the pharmaceutical industry. The current study was carried out to evaluate the phytochemical content and antioxidant properties of the star fruit in Sri Lanka. The peel and the pulp of the raw and ripe fruit was subjected to methanol extraction. Total phenolic content (TPC), total flavonoid content(TFC), and total antioxidant capacity (TAC) were used to test the phytochemical content. The antioxidant activity was determined by the 2,2-Azino-bis-3-ethylbenzothiazoline-6-sulfonic Acid (ABTS) and Ferric Reducing Antioxidant Power (FRAP) assays. Results demonstrated that the highest TPC and TFC were observed in the ripe peel followed by raw peel, raw pulp and ripe pulp of the fruit ( $p < 0.05$ ). Antioxidant activities of the plant extracts based on ABTS, FRAP and TAC indicated highest activity in ripe peel followed by raw peel and pulp, and ripe pulp, separately. In conclusion, the study demonstrated that the ripe peel of the Sri Lankan star fruit contained the highest phytochemical properties and antioxidant activity.

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