

ABSTRACT

The Differences in Antioxidant Activity of Monofloral and Multifloral Honey

Literature Review

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Honey is well-known for its pharmacological activity, such as antioxidant activity. A lot of researches have been conducted to evaluate antioxidant activity in both monofloral and multifloral honey using antioxidant assay such as ABTS, DPPH, FRAP and ORAC. This literature review study aims to discover the differences of antioxidant activity in monofloral honey and multifloral honey, and also to discover which honey has higher antioxidant activity. This study used a scoping review with total 7 articles reviewed. The results of this study showed that monofloral honey and multifloral honey showed significant differences in antioxidant activity, and monofloral honey showed higher antioxidant activity in any antioxidant assay due to its higher total phenolic content (TPC) and total flavonoid content (TFC). Higher TPC and TFC in monofloral honey depends on the polyphenol compounds come from nectar. The correlations between antioxidant activity, TPC and TFC were statistically significant.

Keywords: honey, monofloral, multifloral, antioxidant activity, multivariate analysis