

**PHYSICOCHEMICAL CHARACTERISTICS OF STINGLESS BEE  
HONEY FROM UITM JENGA**

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## ABSTRACT

### PHYSICOCHEMICAL CHARACTERISTICS OF STINGLESS BEE HONEY FROM UITM JENGKA

The study analyses the physicochemical characteristics of stingless bee honey from UiTM Jengka. Although the stingless bee species are similar, the factors such as geographical origin and botanical may result in the production of honey with different properties of pH value, ash content, total acidity and colour intensity. The research provided more information of stingless bee honey according to their species based on their physicochemical properties to determine the beneficiary differences of the honey correspond to their species. Five stingless bee honey samples from different species were used for the current study. The analysis determined the physicochemical characteristics derived from *Heterotrigona itama*, *Heterotrigona erythrogastra*, *Trigona apicalis*, *Trigona binghami* and *Trigona melanoleuca*. From the analysis, the values for pH were  $3.17\pm 0.01$  to  $3.51\pm 0.01$ , the ash content were  $0.2732\pm 0.01$  to  $0.4436\pm 0.004$  g/100g, the total acidity were  $124.83\pm 4.75$  to  $138.67\pm 1.26$  meq/kg, the colour intensity were  $0.2772\pm 0.00$  to  $0.9044\pm 0.01$  and the moisture content were  $23.1\pm 0.12$  to  $28.8\pm 0.12$  %.