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**ANALYTICAL STUDY OF DIFFERENT SAMPLE OF *KITHUL* JAGGERY  
(PREPARED BY USING *Caryota urens*)**

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*Kithul* jaggery a unique unrefined sugar derived from the sap of the *Kithul* palm (*Caryota urens*) in Sri Lanka. It is widely distributed palm in Asia, which is recognized for its smooth cylindrical trunk, large crown-like leaves, and pendulous flowers. The general objective is to investigate the preparation methods and characteristics of *Kithul* jaggery. The specific objectives include studying the preparation methods, analyzing the physicochemical and organoleptic properties, and conducting a comparative study of Jaggery from different regions. The methodology involves collecting Jaggery from multiple locations such as Deniyaya, Galle, Rathnapura, Kurunegala, Monaragala, Badulla, Kegalla, Mathale, and Kothmale, followed by thorough physicochemical analysis. The sap extracted from the *Kithul* flower is rich in glucose, fructose, and sucrose, making it ideal for producing jaggery or treacle. Due to health benefits and its nutritional richness *Kithul* jaggery having major role as medicinal material. But in open market consumers faced problems in selecting high quality *Kithul* jaggery. All *Kithul* jaggery samples having good sweet taste, pleasant smell, solid consistency and half sphere shape. But colour is different. Highest moisture content in Mathale (14.4) and lowest in Kothmale (3.1). Badulla has the highest pH (6.68) and lowest in Kurunegala (5.66). Kegalle shows the highest total ash value (0.964) and Badulla shows lowest (0.100). Acid insoluble ash value highest in Kegalle (0.596) and lowest in Badulla (0.016). Water soluble ash is highest in Badulla (0.197) and lowest in Rathnapura (0.012). Highest sugar content in Galle (1943) and lowest in Badulla (126). Among all *Kithul* jaggery samples Kothmale variety considered as best and having least amount of foreign materials. Due to having lowest moisture content of this variety not dissolve quickly. Due to different extraction methods of *Kithul* sap the concentration of the sap can changed. Therefore, different physicochemical parameters can observe from different *Kithul* jaggery varieties.

**Keywords:** *Kithul* palm, *Kithul* sap, *Kithul* jaggery, Organoleptic, Physicochemical