

## **ABSTRACT**

### **PHYTOCHEMICAL SCREENING OF MANECU (*Chrysohyllum cainito L.*) FRUIT EXTRACT USING ULTRASONIC METHOD WITH 96% ETHANOL SOLVENT**

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Manecu (*Chrysohyllum cainito L.*) contains anti-diabetic, antibacterial, and antioxidant benefits. So a phytochemical screening was conducted to determine the secondary metabolite compounds in the manecu extract using an actual experimental research design (natural experiment). The sample used was manecu fruit; the flesh was separated from the skin and seeds and then dried in the sun by air without exposure to direct sunlight. Once dry, it is blended and sieved, and ultrasonic extraction is carried out, filtered, and evaporated until it becomes a thick extract of manicure fruit. The thick extract obtained was then calculated for the percentage yield value, and a phytochemical screening test was performed. The yield value of manecu fruit extract (*Chrysohyllum cainito L.*) was 30,67%. The results of phytochemical screening showed that manicure fruit extract was positive for containing tannins, saponins, alkaloids, and terpenoids and negative for containing flavonoids and steroids. Further research can be carried out using solvents other than ethanol and extractions.

**Keywords :** *Chrysohyllum cainito, phytochemical screening, manecu fruit extract*