

ABSTRACT

PHYTOCHEMICAL SCREENING OF STAR APPLE EXTRACT (*Chrysophyllum cainito L.*) USING METHANOL SOLVENT

Lailatul Magfiroh

Star apple (*Chrysophyllum cainito L.*) contains anti-diabetic, antibacterial, and antioxidant benefits. So a phytochemical screening was conducted to determine the secondary metabolite compounds in the star fruit extract using an actual experimental research design (natural experiment). The sample used was star 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 star apple. The thick extract obtained was then calculated for the percentage yield value, and a phytochemical screening test was performed. The yield value of star apple extract (*Chrysophyllum cainito L.*) was 27.15%. The results of phytochemical screening showed that star 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 methanol and extractions.

Keywords : *Chrysophyllum cainito, phytochemical screening, star apple extract*