

## ABSTRACT

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Program Study : Nutrition  
Title : THE CHARACTERISTIC OF AMILUM UMBI SUWEG  
(*Amorphophallus campanulatus B1*) AND ANTIOXIDANT  
TEST ACTIVITY *IN-VITRO*

Umbi-umbian (tubers) have a high carbohydrate, but in Indonesia, not all tubers are utilized and developed, one of them is Umbi Suweg (*Amorphophallus campanulatus B1*). Umbi Suweg is an herbal plant that sprouted in the early dry season and at the end of the year in the dry season the tubers are ready for harvest (Kasno, et al., 2009). Umbi Suweg has a potency as an alternative source of food and medicine and it can be helpful as abdominal pain and wound-healing drug. The purpose of this study was to determine: (1) Knowing the characteristics of the starch contained umbi suweg (*Amorphophallus campanulatus B1*), (2) Knowing the moisture content and ash content and phytochemical content in umbi suweg (*Amorphophallus campanulatus B1*), (3) Knowing the antioxidant activity in umbi suweg (*Amorphophallus campanulatus B1*). To view the characteristics of the amilum performed using iodine and test the antioxidant activity by DPPH method using ethanol 96%. The results of research showing moisture content and ash get the average of 9.4% and 0.58%. Umbi suweg contains alkaloids, flavonoids, saponins, steroids and triterpenoids. IC<sub>50</sub> value of 96% ethanol extract is equal 508,83 ppm and power antioxidant activity 151 X lower.

Keywords : phytochemicals, IC<sub>50</sub>, Characteristic of amilum, Umbi Suweg.