**PENETAPAN KADAR VITAMIN C PADA JUS BUAH SIRSAK (***Annona muricata* L**)SECARA TITRASI DENGAN 2,6 DIKLOROFENOL INDOFENOL**

**PADA BEBERAPA SUHU DAN WAKTU PENYIMPANAN**

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**ABSTRAK**

Tanaman sirsak (*Annona muricata* L*)*. Merupakan tanaman kelas Dicotyledonae, keluarga Annonaceae. Sirsak lebih dikenal sebagai tanaman buah. Namun, seiring dengan penelitian terhadap tanaman tersebut, kini populer sebagai tanaman obat. sirsak memiliki kemampuan sebagai antikanker, antibakteri, antijamur, efektif melawan berbagai jenis parasit atau cacing, bahkan dapat mengobati tekanan darah tinggi, depresi, dan stres. Peneliti melakukan penentuan kadar vitamin C yang terkandung pada jus buah sirsak yang baru dibuat dan telah disimpan beberapa waktu pada suhu kamar dan di dalam lemari pendingin, dengan cara titrasi menggunakan larutan pentiter 2,6-Diklorofenol Indofenol.

Tahapan penelitian ini dimulai dengan pengumpulan dan identifikasi tumbuhan, pembuatan pereaksi 2,6-Diklorofenol Indofenol,asam metafosfat 3% b/v, perhitungan kesetaraan 2,6-Diklorofenol Indofenol, penetapan kadar Vitamin C dari larutan sampel dengan cara titrasi menggunakan larutan pentiter 2,6-Diklorofenol Indofenol.

Kandungan vitamin C di dalam jus buah sirsak yang baru dibuat adalah 23,58 mg/100 g. setelah disimpan selama 3 jam pada suhu dingin sebesar 22,96 mg/100g; 3 jam pada suhu kamar sebesar 22,80 mg/100g 6 jam pada suhu dingin sebesar 13,40 mg/100g; 6 jam pada suhu kamar sebesar 13,80 mg/100g; 9 jam pada suhu dingin sebesar 3,84 mg/100g, dan 9 jam pada suhu kamar sebesar 3,04 mg/100g.

Kata kunci : *Vitamin C, Buah Sirsak, 2,6-Diklorofenol Indofenol*

***DETERMINATION OF VITAMIN C LEVELS IN SOURSOP (Annona muricata L) FRUIT JUICE BY TITRATION WITH 2,6 DYLOROPHENOL INDOPHENOL***

***AT SEVERAL TEMPERATURES AND STORAGE TIME***

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***ABSTRACT***

*Soursop plant (Annona muricata L). Is a plant class Dicotyledonae, family Annonaceae. Soursop is better known as a fruit plant. However, along with research on the plant, it is now popular as a medicinal plant. Soursop has the ability as anticancer, antibacterial, antifungal, effective against various types of parasites or worms, can even treat high blood pressure, depression, and stress. Researchers determined the levels of vitamin C contained in soursop fruit juice which was freshly made and had been stored for some time at room temperature and in the refrigerator, by titration using a 2,6-Dichlorophenol Indophenol titre solution.*

*The stages of this research began with the collection and identification of plants, manufacture of 2,6-Dichlorophenol Indophenol reagent, 3% w/v metaphosphoric acid, calculation of the equivalence of 2,6-Dichlorophenol Indophenol, determination of Vitamin C levels from the sample solution by titration using a titre 2 solution. 6-Dichlorophenol Indophenol.*

*The content of vitamin C in freshly made soursop fruit juice is 23.58 mg/100 g. after being stored for 3 hours at a cold temperature of 22.96 mg/100g; 3 hours at room temperature of 22.80 mg/100g 6 hours at cold temperature of 13.40 mg/100g; 6 hours at room temperature of 13.80 mg/100g; 9 hours at cold temperature is 3.84 mg/100g, and 9 hours at room temperature is 3.04 mg/100g.*

*Keywords : V*  *itamin C, Soursop Fruit, 2,6-Dichlorophenol Indophenol*