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KADAR ALKOHOL PADA AIR NIRA (*Arenga pinnata*) BERDASARKAN PENAMBAHAN SUSU DAN TANPA PENAMBAHAN SUSU

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ABSTRAK

Pendahuluan: Arenga pinnata merupakan salah satu tanaman di Indonesia yang bisa menghasilkan nira dan memiliki kadar alkohol. Salah satu produk yang bisa dihasilkan dari nira Arenga pinnata adalah tuak yang memiliki kadar alkohol tinggi. Konsumsi alkohol yang berlebihan bisa mengakibatkan gangguan kesehatan, bahkan kematian. Susu sapi memiliki kandungan yang mampu mengurangi kadar alkohol. **Tujuan:** penelitian ini untuk mengetahui kadar alkohol pada nira Arenga pinnata berdasarkan penambahan susu. **Metode Penelitian:** Penelitian ini menggunakan metode deskriptif Eksperimen dengan teknik sampling yang digunakan adalah metode Purposive sampling. Variabel pada penelitian ini yaitu kadar alkohol pada nira Arenga pinnata terhadap penambahan susu menggunakan metode titrasi iodometri. Pengolahan data menggunakan editing, coding dan tabulating. **Hasil:** Hasil dari penelitian kadar alkohol pada nira Arenga pinnata dengan penambahan susu terjadi penurunan kadar alkohol, sebesar 0,8%. Kandungan protein, lemak, dan kalsium dalam susu sapi merek X mampu mengurangi kadar alkohol pada air nira. **Simpulan:** bahwa susu sapi dapat mengurangi kadar alkohol pada nira Arenga pinnata. Disarankan dalam mengurangi kadar alkohol pada air nira menggunakan susu sapi merek X. **Saran:** Diharapkan bagi dosen/prof dengan hasil penurunan kadar alkohol pada nira Arenga pinnata bisa dijadikan sebagai sumber pengetahuan serta bahan penulahan tentang manfaat susu sapi dalam menurunkan kadar alkohol pada fermentasi nira Arenga pinnata.

Kata kunci: *Arenga pinnata*, Alkohol, Susu Sapi

ALCOHOL CONTENT IN LIQUID WATER (*Arenga pinnata*) BASED ON ADDITION OF MILK AND WITHOUT ADDITION OF MILK

ABSTRACT

Introduction : *Arenga pinnata* is one of the plants in Indonesia that can produce sap that has alcohol content. One product that can be produced from *Arenga pinnata* roomie is wine that has a high alcohol content. Excessive alcohol consumption can cause health problems, even death. Cow's milk contains ingredients that can reduce alcohol levels. **Research purposes:** The problem in this study is to determine the alcohol content of *Arenga pinnata* juice based on the addition of milk. **Method. Results:** This study uses an experimental method with a sampling technique used is the purposive sampling. The variable in this study is the alcohol content in *Arenga pinnata* roomie towards the addition of milk using the iodometric titration method. Data processing using editing, coding and tabulating. There was a decrease in the alcohol content of *Arenga pinnata* by 0.8%. **Conclusions:** The protein, fat, and carbohydrates in X brand's milk can reduce the alcohol content in sap water. It can be concluded that cow's milk can reduce alcohol levels in *Arenga pinnata* juice. It is recommended to reduce the alcohol content in sap water using brand X cow's milk. **Suggestion :** It is hoped that the study program lecturers with the results of decreasing alcohol content in *Arenga pinnata* sap can be used as a source of knowledge and information on the benefits of cow's milk in reducing alcohol levels in *Arenga pinnata* sap