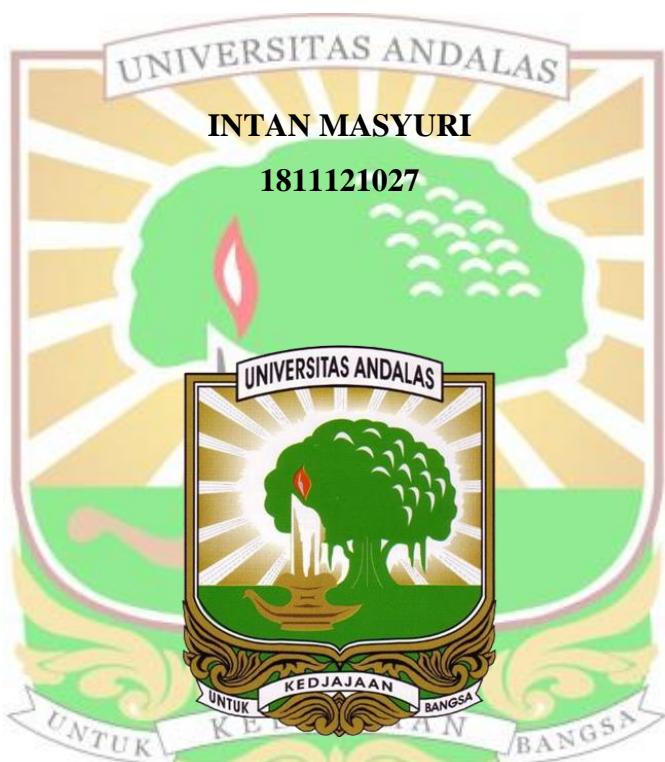


**PENGARUH PENAMBAHAN GUM ARAB TERHADAP
KARAKTERISTIK *FRUIT LEATHER* DARI SIRSAK (*Annona
muricata L*) DAN BUNGA TELANG (*Clitoria ternatea*)**



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*Sebagai Salah Satu Syarat Untuk Memperoleh
Gelar Sarjana Teknologi Pertanian*

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Pengaruh Penambahan Gum Arab Terhadap Karakteristik *Fruit Leather* Dari Sirsak (*Annona muricata L*) dan Bunga Telang (*Clitoria ternatea*)

Intan Masyuri, Aisman, Cesar Welya Refdi

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan gum arab terhadap karakteristik *fruit leather* dari sirsak dan bunga telang. Rancangan pada penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan 3 ulangan. Perlakuan yang digunakan pada penelitian ini adalah A (Tanpa penambahan gum arab), B (penambahan gum arab 0,25%), C (penambahan gum arab 0,5%), D (penambahan gum arab 0,75%), dan E (penambahan gum arab 1,0%). Data yang diperoleh dianalisis dengan *Analysis of Variance* (ANOVA) kemudian dilanjutkan dengan analisis *Duncan's New Multiple Range Test* (DNMRT) pada taraf 5%. Hasil penelitian menunjukkan bahwa perbedaan penambahan gum arab berpengaruh nyata terhadap tekstur (kekerasan), kadar air, kadar abu, nilai pH, Aw (*activity water*), serat kasar, vitamin C, antosianin, aktivitas antioksidan dan kadar sukrosa. Perlakuan terbaik berdasarkan sifat kimia, fisik, dan organoleptik adalah perlakuan D (penambahan gum arab 0,75%) dengan nilai tekstur (kekerasan) $129,18 \text{ N/cm}^2$, kadar air 17,09%, kadar abu 1,33%, nilai pH 3,55, A_w 0,48, serat kasar 2,83%, vitamin C 19,13 mg/100 g, antosianin 2,62 mg/L, aktivitas antioksidan 74,34%, kadar sukrosa 33,57%, angka lempeng total $6,4 \times 10^2 \text{ CFU/g}$, hasil organoleptik warna 4,05 (suka), aroma 3,75 (suka), tekstur 3,85 (suka), dan rasa 3,90 (suka).

Kata Kunci : buah sirsak, bunga telang, gum arab, *fruit leather*, karakteristik

The Effect of the Addition of Gum Arabic on the Characteristics Fruit Leather from Soursop (*Annona muricata L*) and Butterfly Pea (*Clitoria ternatea*)

Intan Masyuri, Aisman, Cesar Welya Refdi

ABSTRACT

This research was aimed to know the effect of the addition on gum arabic on the characteristics *fruit leather* from soursop and butterfly Pea. The design in this study used a completely randomized design (CRD) with 5 treatment and 3 replications. The treatment used in this study were A (without the addition of gum arabic), B (addition of gum arabic 0.25%), C (addition of gum arabic 0.5%), D (addition of gum arabic 0.75%), and E (addition of gum arabic 1,0%). The data obtained werw analyzed using Analysis of Varience (ANOVA) and then continued with Duncan's New Murtiple Range Test (DNMRT) analysis at the 5% level. The results showed that the duffference in addition og gum arabic had a sgnificant effect on the analysis texture (hardness), moisture content, ash content, pH value, Aw (activity water), crude fiber, vitamin C, anthocyanin, antioxidant activity, and sucrose content. The best treatment based on chemical, physical, and organoleptic properties was treatment D (addition of gum arabic 0.75%) with a texture (hardness) value of 129.18 N/cm^2 , water content 17.09%, ash content 1.33%, pH value 3.55, A_w 0.48, crude fiber 2.83%, vitamin C 19.13 mg/100 g, anthocyanin 2.62 mg/L, antioxidant activity 74.34%, sucrose content 33.57%, total plate count $6.4 \times 10^2 \text{ CFU/g}$, color sensory results 4.05 (like), aroma 3.75 (like), texture 3.85 (like), and taste 3.90 (like).

Keyword : soursop fruit, butterfly pea, arabie gum, *fruit leather*, characteristics