

ABSTRAK

PENGARUH *BAGGING* TERHADAP KUALITAS BUAH JAMBU BIJI (*Psidium guajava* L.) KULTIVAR KRISTAL

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Kualitas buah jambu biji (*Psidium guajava* L.) Kristal dipengaruhi berbagai faktor selama proses pertumbuhan dan perkembangan buah. Salah satu upaya yang dapat dilakukan untuk meningkatkan kualitas buah, melalui penerapan *fruit bagging*. Perbedaan karakteristik *bagging* diduga menghasilkan kualitas buah yang berbeda. Penelitian ini bertujuan untuk mengetahui pengaruh berbagai material *bagging* terhadap kualitas buah jambu biji Kristal serta menentukan material yang paling efektif dalam meningkatkan mutu buah. Penelitian dilaksanakan di PT Great Giant Pineapple, Lampung Tengah pada Oktober-Desember 2025 menggunakan Rancangan Acak Kelompok (RAK) faktor tunggal dengan lima perlakuan, yaitu (B1) plastik *polyethylene* + *foamnet low density polyethylene* (kontrol standar), (B2) *polymailer bag*, (B3) *paper bag*, (B4) *polypropylene non-woven bag*, dan (B5) *nylon bag*. Hasil penelitian menunjukkan bahwa perbedaan material *bagging* berpengaruh nyata terhadap warna buah, kerusakan fisik buah, bobot buah, ukuran buah, kekerasan buah, dan total padatan terlarut buah. Berdasarkan hasil penelitian, plastik *polyethylene* yang dikombinasikan dengan *foamnet low density polyethylene* merupakan material *bagging* yang paling efektif dalam menghasilkan kualitas buah jambu biji Kristal terbaik melalui pengamatan warna, kerusakan fisik, persentase kerontokan, bobot, lingkaran vertikal dan horizontal, kekerasan, serta °Brix buah jambu biji Kristal.

Kata kunci: *fruit bagging*, jambu biji Kristal, kualitas buah, material *bagging*

ABSTRACT

EFFECT OF DIFFERENT BAGGING ON THE QUALITY OF CRYSTAL GUAVA (*Psidium guajava* L.) FRUIT

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The quality of Crystal guava (*Psidium guajava* L.) fruit is influenced by various factors during its growth and development. One approach to improving fruit quality is the application of fruit bagging. Differences in bagging materials are expected to result in variations in fruit quality. This study aimed to evaluate the effects of different bagging materials on the quality of Crystal guava fruit and to determine the most effective material for improving fruit quality. The research was conducted at PT Great Giant Pineapple, Central Lampung, from October to December 2025 using a single-factor Randomized Complete Block Design (RCBD) with five treatments: (B1) polyethylene plastic combined with low-density polyethylene foamnet (standard control), (B2) polymailer bag, (B3) paper bag, (B4) polypropylene non-woven bag, and (B5) nylon bag. The results showed that different bagging materials significantly affected fruit color, physical damage, fruit weight, fruit size, firmness, and total soluble solids. Based on the results, polyethylene plastic combined with low-density polyethylene foamnet was the most effective bagging material for producing the highest quality Crystal guava fruit, as indicated by fruit color, physical damage, fruit drop percentage, fruit weight, vertical and horizontal circumference, firmness, and total soluble solids (°Brix).

Keywords: *bagging* material, Crystal guava, fruit *bagging*, fruit quality