

## Karakterisasi morfologi dan pola pita isozim pada ubi kayu (*Manihot esculenta*, Crantz) tinggi beta karoten

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### Abstrak

Telah dilakukan penelitian mengenai karakterisasi morfologi ubi kayu (*Manihot esculenta*, Crantz) tinggi beta karoten. Penelitian bertujuan untuk mengetahui keragaman morfologi dan pola pita isozim peroksidase (PER), 6-fosfoglukonat dehidrogenase (6-PGD), sikimat dehidrogenase (SDH), dan enzim malat (ME) pada 5 genotipe ubi kayu Mentega 1, Mentega 2, Roti, Ubi Kuning, dan Adira 1. Hasil pengamatan morfologi dan analisis pola pita isozim diuraikan secara deskriptif dan disajikan dalam bentuk dendrogram.

Hasil penelitian menunjukkan bahwa dalam satu genotipe terdapat keragaman karakter morfologi tetapi tidak dalam pola pita isozim. Karakter pembeda antar genotipe adalah warna daun muda, warna daun tua, warna pertulangan daun bagian atas, warna petiolus, gigi pada daun, warna batang muda, warna batang tua, dan warna parenkim. Berdasarkan dendrogram pola pita enzim PER, genotipe Adira 1 dan Ubi Kuning berada dalam satu cluster.

.....Research on morphological and isozyme characterization of cassava (*Manihot esculenta*, Crantz) with high beta-carotene has been done. The study aims to determine the diversity of morphological and isozyme banding pattern of peroxidase (PER), 6-phosphogluconate dehydrogenase (6-PGD), schicimate dehydrogenase (SDH), and malic enzyme (ME) from 5 cassava genotypes (Mentega 1, Mentega 2, Roti, Ubi Kuning, and Adira 1). The results of morphological observation and analysis of isozyme banding pattern was described descriptively and presented in the form of dendrogram.

The results showed that there is a diversity of morphological character in a single genotype but not in isozyme banding pattern. The distinguishing characters between the genotypes are colours of: young leaf, old leaf, basal part of leaf venation, petiolus, teethlets on mature leaf, young stem, old trunk, and parenchyma. Based on dendrogram of PER enzyme banding pattern, Adira 1 and Ubi Kuning are put in the same cluster