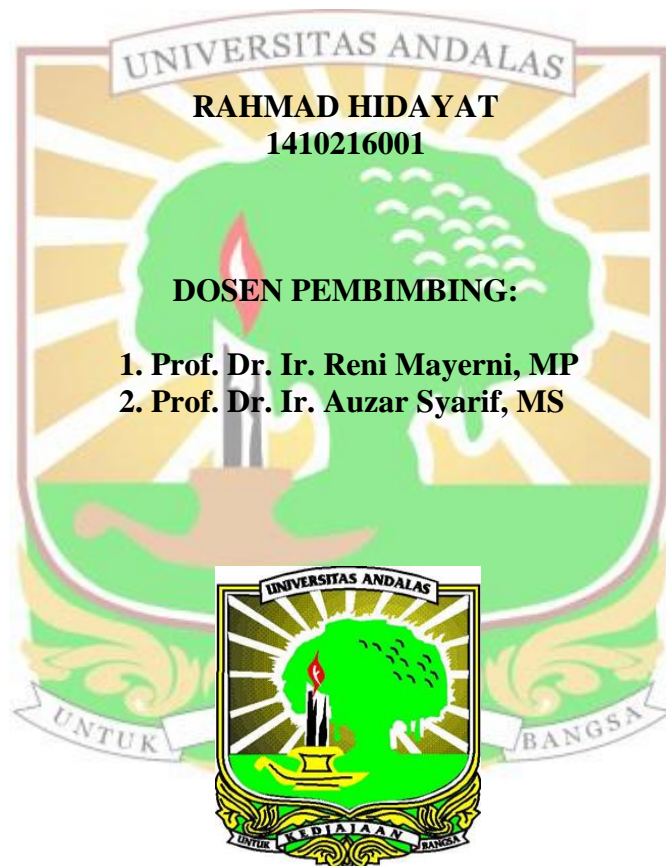


**EKSPLORASI DAN KARAKTERISASI FENOTIP TANAMAN
NILAM (*Pogostemon cablin* Benth) LOKAL DI KABUPATEN
PASAMAN BARAT**

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EKSPLORASI DAN KARAKTERISASI FENOTIP TANAMAN NILAM (*Pogostemon cablin* Benth) LOKAL DI KABUPATEN PASAMAN BARAT

ABSTRAK

Tanaman Nilam (*Pogostemon cablin* Benth) adalah tumbuhan semak tropis yang mampu menghasilkan minyak atsiri sebagai bahan baku, pencampur, dan fiksatif dalam industri parfum, farmasi, kosmetik, antiseptik, dan insektisida. Tanaman nilam telah luas penyebarannya di Kabupaten Pasaman Barat dengan jumlah populasi yang sangat besar. Eksplorasi dan karakterisasi fenotip tanaman nilam lokal di Kabupaten Pasaman Barat bertujuan untuk mendapatkan informasi awal mengenai keragaman fenotip dan kemiripan tanaman nilam lokal Pasaman Barat. Penelitian diawali dengan kegiatan eksplorasi dilanjutkan dengan karakterisasi tanaman nilam. Penelitian menggunakan metode survei dengan pengambilan sampel secara sengaja. pengumpulan data dilakukan melalui wawancara petani nilam, mengamati dan mengukur secara langsung karakter fenotip. Data pengamatan ditampilkan secara deskriptif, dilanjutkan dengan analisis ragam fenotipik dan analisis kemiripan menggunakan program NtSys Ver. 2.02. Analisis ragam fenotipik 35 aksesori tanaman nilam lokal Pasaman Barat memperlihatkan keragaman fenotip luas pada karakter tinggi tanaman, jumlah cabang primer, panjang cabang primer, dan panjang daun. sedangkan keragaman sempit diperlihatkan oleh karakter lebar daun dan panjang tangkai daun. Hasil analisis kemiripan tanaman nilam lokal Pasaman Barat menggunakan gabungan data kuantitatif dan kualitatif menunjukkan koefisien kemiripan 0,51-0,94 yang terbagi dalam kelompok 1A sebanyak 23 aksesori yaitu AM-1, AM-2, AM-3, AM-5, AM-4, ST-4, ST-5, TB-3, LG-1, LG-3, LG-5, LG-4, TD-1, TD-5, TD-4, ST-1, ST-2, ST-3, RB-2, RNB-3, RB-4, TD-2, TD-3, kelompok 1B terdiri dari 10 aksesori yaitu BN-1, BN-2, TB-2, BN-4, TB-5, TB-1, BN-3, BN-5, TB-4, LG-2, dan kelompok II hanya terdiri dari 2 aksesori yaitu aksesori RB-1, RB-5.

Kata Kunci: *Tanaman nilam, eksplorasi, analisis ragam fenotip, analisis kemiripan*

EXPLORATION AND CHARACTERIZATION OF PHENOTYPES OF LOCAL PATCHOULI PLANT (*Pogostemon cablin* Benth) IN PASAMAN BARAT

ABSTRACT

Patchouli plant (*Pogostemon cablin* Benth) is a tropical shrub plants capable of producing essential oils as raw materials, mixing substant, and fixative in perfume industry, pharmacy, cosmetics, antiseptic, and insecticides. The plant has been widely spread in Pasaman Barat with a very large population. Exploration and characterization of the patchouli plant phenotypes in Pasaman Barat was aimed at getting preliminary information about the diversity of phenotypes and the resemblance of the local Pasaman Barat patchouli plant. Research was started by exploration activities and continued with the characterization of patchouli plant. A survey was done by purposive sampling. Data were collected by interviewing patchouli farmers, observing and measuring the phenotypes characters directly. Data were presented descriptively, followed by analysis of phenotypic diversity and similarity analysis was done using NtSys program Ver. 2.02. Phenotypic diversity analysis of 35 accessions of the local Pasaman Barat patchouli plants showed a high diversity of phenotypes in the character of plants height, the number of primary branches, length of primer branch, and length of leaves. whereas the low diversity of characters were shown on the width of leaves and length of leaf stalk. The results of the analysis on the similarity of the local Pasaman Barat patchouli plants using combination of quantitative and qualitative data showed the coefficient of similarity 0.51-0.94 which were classified in group IA consisting of 23 accessions: AM-1, AM-2, AM-3, AM-5, AM-4, ST-4, ST-5, TB-3, LG-1, LG-3, LG-5, LG-4, TD-1, TD-5, TD-4, ST-1, ST-2, ST-3, RB-2, RNB-3, RB-4, TD-2, TD-3, group IB consisted of 10 accessions: BN-1, BN-2, TB-2, BN-4, TB-5, TB-1, BN-3, BN-5, TB-4, LG-2, and group II consisted of only 2 accessions: RB-1, RB-5.

Keywords: *Patchouli plants, exploration, analysis of phenotypic diversity, similarity analysis*