

**KARAKTERISASI MORFOLOGI DAN ANALISIS
PROKSIMAT JAGUNG (*Zea mays*, L.) VARIETAS MOMALA
GORONTALO**

SKRIPSI

Diajukan Sebagai Salah Satu Persyaratan Untuk
Memperoleh Gelar Sarjana Biologi

OLEH

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**PROGRAM STUDI BIOLOGI
JURUSAN BIOLOGI
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS NEGERI GORONTALO
TAHUN 2019**

LEMBAR PERSETUJUAN

SKRIPSI

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JAGUNG (*Zea mays*, L.) VARIETAS MOMALA GORONTALO**

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Oleh

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Waktu : 9.15-10.30 WITA

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- | | | | |
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Gorontalo, 10 Juli 2019

Mengetahui

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ABSTRAK

Rizal Suleman. 2019. Karakterisasi Morfologi dan Analisis Proksimat Jagung (*Zea Mays,L*) Varietas Momala Gorontalo. Jurusan Biologi. Fakultas Matematika dan Ilmu Pengetahuan Alam. Universitas Negeri Gorontalo. Pembimbing I Dr.Novri Youla Kandowanko,MP dan Pembimbing II Dra. Aryati Abdul, M.Kes.

Penelitian ini bertujuan untuk mengetahui karakteristik morfologi dan analisis proksimat jagung (*Zea mays,L.*) varietas Momala Gorontalo. Metode yang digunakan adalah metode observasi yakni melakukan observasi terhadap jagung varietas Momala Gorontalo. Analisis data menggunakan metode analisis deskriptif kuantitatif. Karakter morfologi jagung Momala Gorontalo yaitu rerata tinggi tanaman 146,47 cm; rerata tinggi tongkol 73,88 cm; rerata lingkaran batang 8,46 cm; rerata jumlah daun 12 helai; rerata panjang helaian daun 86,59 cm; rerata panjang pelepah daun 16,25 cm; rerata lebar daun 8,71 cm; rerata arah helaian daun sedikit melengkung; rerata sudut Axilla daun $39,95^{\circ}$ (derajat); rerata bentuk ujung daun runcing; rerata pewarnaan antosianin pada ruas 5,086%; pada bulir 5,86 %; pada rambut jagung 83,76 %. Rerata Panjang tongkol 12,58 cm; rerata diameter tongkol 3,34 cm; rerata bobot tongkol dengan kelobot 88,58 g, rerata bobot tongkol tanpa kelobot 60,74 g, rerata jumlah biji per baris 20 biji, Berat 1000 butir 272 g. Analisis proksimat jagung Momala Gorontalo untuk kadar air yaitu $14,82 \pm 0,04\%$; kadar abu yaitu $1,35 \pm 0,01\%$; kadar protein kasar yaitu $11,51 \pm 0,24\%$; kadar lemak kasar yaitu $4,62 \pm 0,48\%$; kadar karbohidrat yaitu $67,68 \pm 0,67\%$; nilai BETN yaitu $58,36 \pm 0,93\%$ dan nilai energi metabolis yaitu $2886,25 \pm 14,68$ Kkal/100 g.

Kata kunci : Jagung varietas Momala Gorontalo, Karakteristik Morfologi, Analisis Proksimat

ABSTRACT

Rizal Suleman. 2019. Morphology Characterization and Proximate Analysis of Momala Gorontalo Corn (*Zea mays*, L.) Variety. Department of Biology. Faculty of Mathematics and Natural Science. State University of Gorontalo. The principal supervisor is Dr. Novri Youla Kandowangko, MP, and the co-supervisor is Dra. Aryati Abdul, M.Kes.

The research aimed to find out morphological characteristics and proximate analysis of Momala Gorontalo corn (*Zea mays*, L.) variety. The research applied observation method by doing observation towards Momala Gorontalo corn variety. The data analysis used quantitative descriptive analysis. The morphology characteristics of Momala Gorontalo corn were average plant height was 146,47 cm; average cob height was 73,88 cm; average stem perimeter was 8,46 cm; average leaves number was 12; average leaves strand was 86,59 cm; average leaves midrib was 16,25 cm; average leaves width was 8,71 cm; average leaves strand direction was a bit curving; average Axilla corner was 39,95°; average leaves tip shape was sharp; average anthocyanin coloring at section was 5,086%; at grain was 5,86%; at corn hair was 83,76%. Average cob length was 12,58 cm; average cob diameter was 3,34 cm; average cob weight with cornhusk was 88,58 g, average cob weight without cornhusk was 60,74 g, average seeds number per line was 20, and weight of 1000 grains was 272 g. The proximate analysis of Momala Gorontalo corn for moisture content was $14,82 \pm 0,04\%$; ash content was $1,35 \pm 0,01\%$; crude protein content was $11,51 \pm 0,24\%$; crude fat content was $4,62 \pm 0,48\%$; carbohydrate content was $67,68 \pm 0,67\%$; value of Nitrogen Free Extract (BETN) was $58,36 \pm 0,93\%$ and value of metabolic energy was $2886,25 \pm 14,68$ Kkal/100 g.

Keywords: Momala Gorontalo Corn Variety, Morphological Characteristics, Proximate Analysis