

THE QUALITY INDICES OF FERMENTED FODDER FROM SMOOTH BROME *BROMUS INERMIS* 'IULIA SAFIR'

Titei Victor¹, Dumitriu Simona², Garștea Nina¹, Coșman Sergiu^{1,3}, Vacarciuc Elena², Mardari Liliana¹, Cozari Serghei¹, Coșman Valentina^{1,3}, Stavarache Mihai⁴, Miron Aliona¹, Gavrilă Cristian², Ababii Alexei¹, Teleuță Alexandru¹

¹„Al. Ciubotaru” National Botanical Garden (Institute), SUM,
Chisinau, Republic of Moldova

²Research and Development Station for Meadows, Vaslui, Romania

³Institute of Biotechnology in Animal Husbandry and Veterinary
Medicine, Maximovca, Anenii Noi, Republic of Moldova

⁴„Regele Mihai I” University of Life Sciences, Timisoara, Romania
E-mail: vic.titei@gmail.com

The main objective of this research was to evaluate the quality indices of fermented fodder, silage and haylage prepared from smooth brome *Bromus inermis* cultivar 'Iulia Safir', and prospect its use as forage for livestock.

The plant samples were collected in pre-flowering stage, from experimental field of the R&D Station for Meadows, Vaslui. The fermented fodder – silage was prepared from fresh mass, and haylage – from pre-wilted in the field plants, chopped and compressed in well-sealed glass containers, stored at ambient temperature (18-20°C). After 45 days, the containers were opened, and the sensorial, fermentation and biochemical composition indices were determined in accordance with standard laboratory procedures (SM 108) in the Institute of Biotechnology in Animal Husbandry and Veterinary Medicine, Maximovca.

The results revealed that fermented fodders are characterized by 345.6-570.0 g/kg DM with 1.64-3.93% lactic acid, 0.15-0.19% acetic acid, 11.47-11.77% CP, 2.51-2.86% CP, 35.03-35.27% CF, 44.13-44.39% NFE, 3.26-5.11% sugars, 0.93-1.20 % starch, 27.75-33.75 mg/kg carotene, 18.50-18.80 MJ/kg GE 8.50-8.51MJ/kg ME.

The smooth brome romanian cultivar 'Iulia Safir' could be used in the Republic of Moldova for the restoration of degraded permanent grasslands, as a component of the mix of grasses for the creation of temporary grasslands, the harvested green mass and prepared silage and haylage contain a lot of nutrients, which make them suitable to be used as a part of diverse diets for livestock.

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