



AGBIOL

**PROCEEDINGS
OF
II. INTERNATIONAL
AGRICULTURAL, BIOLOGICAL
& LIFE SCIENCE CONFERENCE**

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EDIRNE, TURKEY



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EVALUATION OF QUALITY OF BUTTER PRODUCED FROM CREAM AND YOGURT DURING STORAGE

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ABSTRACT

Butter samples produced from cream (industrial) or yogurt (traditional) were evaluated for fatty acid (C4 – C18:3) composition focusing on the *trans* isomer. Samples were evaluated over 1st and 30 d of storage by moisture, total acidity (lactic acid), peroxide value and total lipid. The lactic acid content varied from 0.17 to 0.18 g.100 g⁻¹ for industrial and 0.02 to 0.12 g.100 g⁻¹ for traditional butter samples. The peroxides value levels varied from 0.90 for industrial to 1.44 meq.kg⁻¹ for traditional in 30 d of storage. The moisture content varied from 16.21 to 13.19 and 13.83 to 13.57 g.100 g⁻¹ and the total lipid content varied from 77.5 to 79.5 and 83.0 to 83.5 g.100 g⁻¹ for industrial and traditional butter samples, respectively. The levels of saturated, monounsaturated, polyunsaturated fatty acids and total *trans* isomer varied from 62.81 to 69.99, from 3.50 to 3.57, from 2.44 to 2.81 g.100 g⁻¹ and from 1.21 to 1.08 g.100 g⁻¹ for traditional and industrial butter samples, respectively.

Keywords: yogurt butter, cream butter, peroxide value, fatty acids, storage.