

## CHEMICAL ANALYSIS OF RAPE SEED AND SOME THEIR PRODUCTS

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**Summary.** Analysis and comparison of the amount of proteins, lipids and glucosinolates in 7 cultivars of summer rapeseeds ('Sponsor', 'Natan', 'Orinio', 'Siesta', 'Sary', 'Griffin', 'Summit') and in 7 cultivars of winter rapeseeds ('Liclassic', 'Milena', 'Pilot', 'Gello', 'Digger', 'Valesca', 'Orkan') and rape oil – cake and coarse rapeseeds, cultivated in experimental station of Lithuanian university of agriculture, were performed.

The cultivars of summer rapeseeds had a higher level of proteins, but a lower amount of lipids compared to the cultivars of winter rapeseeds. It was estimated, that the amount of glucosinolates in summer rapeseeds varied from 7,3 to 16,4  $\mu\text{mol/g}$  91 % DM and in winter rapeseeds from 8,52 to 14,4  $\mu\text{mol/g}$  91 % DM. In making feed mixture it is necessary to control the glucosinolates in rapeseeds and in products made from them, such as rape oil – cake and coarse rapeseeds. It is recommended to use the seeds of 'Orinio' and 'Valeska'.

**Key words:** rapeseed (*Brassica napus*), nutrient, glucosinolates.