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P30 ANTIOXIDANT PROPERTIES OF *CAMELINA SATIVA* OIL
AND PRESS-CAKES

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Camelina sativa is well known due to a high content of polyunsaturated fatty acids. Till now this oil has been studied mainly for applications in technique as a raw material for synthesis of resins, biodiesel and hydrocarbon fuels. This paper is devoted to the studies of oxidative stability of cold-pressed *Camelina sativa* (also known as camelina, false flax or gold-of-pleasure) oil and its extracts of spices. Despite the high level of polyunsaturated fatty acids *Camelina sativa* oil appeared more rigid against oxidation than rapeseed or flax oil. The oily extracts of spices were prepared by maceration at a room temperature for 24 h. The oxidative stability of extracts was determined under accelerated oxidation conditions and monitored by peroxide values. It was found that most of the additives (e.g., bay leaves, thyme, clove, barley's sprouts, coriander, ginger) do not influence or even decrease the oxidative stability of the oil. On the contrary, the *Camelina sativa* oil demonstrated a remarkably higher stability, when thyme additive was used. The press-cakes of camelina seeds were extracted with different solvents (ethanol and water) or their mixtures under variable conditions (room temperature, reflux or ultrasound). Both the prepared oily extracts of spices and press-cakes' extracts were characterized by total polyphenol content (Folin-Ciocalteu method) and antiradical activity against 1,1-diphenyl-2-picrylhydrazyl and galvinoxyl.
Keywords: *Camelina sativa*, oil, press-cake, total polyphenol content, antiradical activity, antioxidant activity.

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