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JUMPTO		Abstract	t: Three different types of polish commercial butters, namely: light, regular and high fat content were under study. Studied samples were stored at two different temperatures (5 or 20°C) for a period of 8 weeks. Measurements of the content of fat, water, Acid Value (AV) and Peroxide Value (PV) were determined in the fresh butter and at one week interval. The AV and PV were					
	determir The rela		determined k The relation	rmined by the conventional titrimetric method. IR spectra of every sample were registered. relation between the AV values obtained by titration and by spectral measurements were				
	studied by the Partially Least Square (PLS) regression, to determination of acid value. Two independent models, one the second one for regular and high fat content butter					PLS) regression, to buil ndent models, one for li fat content butters (m	t a statistical moo ght type butters (r odel II) were cal	del for rapid model I) and ibrated. The
			characteristic parameters of the models are: $R^2$ = 0.97, PRESS (Prediction Residual Error Sum of					
			Squares) = 2.91, factors number = 5 and $R^2$ = 0.84, PRESS = 3.64, factors number = 6, for model I and model II, respectively. The developed models correctly predict acid values of unknown samples of different types of butters.					
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