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#### Czech J. Food Sci.

Němečková I., Dragounová H.,

## J., Roubal P.:

# Fermentation of vegetable substrates by lactic acid bacteria as a basis of functiona foods

Czech J. Food Sci., 29 (2011): S42-S48

People suffering from lactose intolerance cow's milk allergy or phenylketonuria people on low-protein diet are restricted i the consumption of dairy products. The basket should consumers' variegated and enriched with probiotics The main task was to evaluate importar growth and metabolic characteristics ( lactic acid bacteria in rice, natural rice corn, chickpea and barley. Suspension of the respective flours in water (8% w/v were supplemented with glucose (1° pasteurised and fermented Suitable combinations of cultures an substrates enable the growth microorganisms minimally by t 2 decima shape of the acidification curve pH shoul be higher than 4.5 after 4-h fermentation. The vegetable samples contained lower concentrations of organic acids than mill samples because of their lower content of the buffering substances. Fermentation did not result in any decrease in the concentration of protein or phenylalaning. Thus, special formulas of foods for people