Exploring the Feasibility of Introducing Particular Polyphenols into Cow Milk Naturally through Animal Feeding

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Abstract : The aim of the present study was to explore the feasibility of enriching polyphenols in cow milk via addition of flavanone-rich citrus pulp to existing animal feed. 8 Holstein lactating cows were enrolled onto the 4 week feeding study. 4 cows were fed the standard farm diet (control group), with another 4 (treatment group) which are fed a standard farm diet mixed with citrus pulp diet. Milk was collected twice a day, 3 times a week. The resulting milk yield and its macronutrient composition as well as lactose content were measured. The milk phenolic compounds were analysed using electrochemical detection (ECD).

Keywords: milk, polyphenol, animal feeding, lactating cows

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