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Effect of the incorporation of Argania spinose's sub-products diet on camel milk antioxidant activity and nutritional composition

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Many studies reported that beneficial bio molecules compounds have been identified from various parts of the *Argania spinosa's* (*L.*) Skeels and can play an important role in fighting diseases and could be used in pharmaceutical and personal care products. Certainly, Morocco includes the most important rate of production, but the culture experiments in many countries are promoters and the valorization of the different products of these plants must take place. In this present study we investigate the effect of the incorporation of the Argane tree's sub product in animal feeding, on the antioxidant activity, the microbiological quality, the physicochemical and mineral composition of camel milk collected from Ounagha (Essaouira Morocco) and compare it to the milk of a control population Argane free. The preliminary results of this study revealed a remarkable improvement in several of the analyzed parameters, especially the fat rate with an increase of 51.21%, which remains the most noteworthy. Microbiological analysis showed that the mean mesophilic aerobic flora count for camels consuming the Argane Diet (AD) was 1.38.107±2.67.107 Cfu.mL-1 comparing to 2.96.107±5.42.107 Cfu.mL-1 for those consuming the Control Diet (CD). The total phenolic content of milk collected from camels consuming the Argane diet varied from 17.29±0.61 to 22.65±1.15 mg GAE/g of DM, while that the total phenolic content of milk collected from camels consuming ranged a control diet varied from 10.74±0.39 to 12.46±0.33 mg GAE/g of DM. Furthermore, mineral analysis demonstrated that AD milk samples are rich in potassium, magnesium and other minerals with many health benefits.

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