

## TESTING ADDITION OF FEED ADDITIVE FOR DAIRY COWS ON MILK QUANTITY AND QUALITY

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### Abstract

The purpose of the research was to examine the impact of feed additive on calf rearing and cow's milk used by humans, which is significant for milk production efficiency. Lactation starts with the birth of a calf, lasts cca 305 days and ends cca two months before new calf is born. Cow is constantly producing and that is why it is necessary to secure adequate quality food. In the last decades and recent years, the work was carried out in order to determine which feed or additives affect favourably the quantity and quality of milk.

As part of research, group biological experiment was carried out using the method of dividing cows into two groups: control and trial. According to experiment plan, additive "Wisn raps" product of "Ibeca panto" from Hamburg (Germany) was applied. The experiment was performed in the period of 6 months (from May to November) on cow mini farm in Veliki Siljegovac near Krusevac - Serbia. The number of cows in the experiment was 18 equally divided into two groups of 9-control and trial group. The cows were domestic spotted cows, Simmental. Quantity of milk was from 16 to 18 kg with control group, and 18 to 20 kg with trial group. The percentage of milk fat was from 3,7 to 3,9% with control group, and 4 to 4,1% with trial group. Additive was given to cows together with silage in the quantity of 150 g per ton.

On the basis of calculation, statistical significance of the application of this additive has been determined on the quantity and quality of milk.

**Key words:** Additive, Wisn raps, Dairy cows, Nutrition, Quantity and Quality of Milk.