

COMPLEX ESTIMATION OF QUALITY OF PROCESSED SOYBEAN PRODUCTS

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Among high protein crops, soybeans are important. Soybeans contain 32-40 % protein, almost 17-20 % fat, vitamins B, vitamin K, carotene, alfatocopherol, enzymes and minerals. Soybean protein contains essential amino acids, in particular, lysine is more in it than in other cereals. Soybeans are rich in potassium, phosphorus, sulfur, iron, contains trace elements: copper, zinc, manganese, selenium.

The technological characteristics of soybean grain processing, peculiarities of the physiological assimilation of protein fodder additives, such as soybean meal and cake, are presented. It also highlights the quality and safety performance of monogastric and ruminants in feeding, in particular, the characteristics of the protein as to its solubility, dispersion and digestibility.

The system of analysis of soya products by the parameters of neutral and acid-detergent fiber has been supplemented.

As a result of the research, it should be noted that the quality of soybean processing products depends on the technology and quality of raw materials. The yield of crude protein in soybean meal and meal will be higher if the raw material contains 35-38 % protein.

The solubility of protein in a 0.2% solution of potassium hydroxide is in the normative limits - 76.0–77.0 % for soybean meal, and is much lower in soybean meal - 56.0–59.5 %. However, the characteristics of the studied models in terms of solubility in the McDougall Buffer showed a higher efficiency in this method of treatment in soybean meal, compared to the meal.

Compliance with the technology of soybean processing and the prevention of falsification of the resulting products will enable the effective conversion of feed and improve the economic performance of producers.

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