



## Ostrich - Clinical and Physiological Condition

*Babaeva Shakhlo Aliyevna*

*Samarkand Institute Of Veterinary Medicine*

**Abstract:** *The article describes the effectiveness and influence of the drug "Panaroot-98" on the clinical and physiological indicators of 12 month-old ostriches: development, weight gain.*

**Keywords:** *ostriches, starters, bridgers, ostrich chicks, growth-development, body mass.*

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Sh.M.Mirziyoev - Thanks to the unwavering will, selfless work and perseverance of our people, the joint efforts of the population and government agencies, we are courageously overcoming the existing difficulties. In close cooperation with the European Union, important steps have been taken to implement in our country a system of expanded trade preferences - GSP +. In the future, this system will allow more than 6,000 types of products produced in our country to enter the European market duty-free. This, in turn, will allow to increase the annual export of poultry products by \$ 300 million.

Ostrich farming is one of the fastest growing sectors in Uzbekistan today, with many farms, including private ones, having contracts with ostrich farms, which are delivered directly to farms from Africa. However, due to the lack of skills to raise ostriches among the population, farms and citizens suffer a lot. Overcoming these situations requires a scientific approach.

On this day, ostrich breeding is also evolving with the demands of the times, and the skills to keep and care for them must begin with caring for ostrich chicks. We all know that it is natural for them to experience stress not only when transporting ostriches but also other animals. In similar cases, animals and birds have difficulty adapting to the new location in the first place, leading to a decrease in productivity, weight loss and, in general, economic damage.

Poultry, especially ostrich meat and eggs, cannot be given any medicine if they are to be consumed. It should be noted that the ostrich industry is relatively new in Uzbekistan, and that ostriches are mainly kept in the wild without restrictions, the effects of plant substances on their bodies have not been fully studied.

Panaroot-98 is a dietary supplement that does not accumulate and is not excreted in any part of the body. Even if ostrich products are tested against ISO standards, you can still find out that the product is pure.

**The course of the experiment:** At the Samarkand Institute of Veterinary Medicine under the direction of Doctor of Veterinary Sciences, Associate Professor Niyazov Hakim Bakoevich, Assistant Professor of "Department of Animal Physiology, Biochemistry and Pathological Physiology" Babaeva Shakhlo Aliyevna brought to Uzbekistan physiological and clinical indicators of African ostriches. studied.

In this regard, in accordance with the agreement between the Institute of Plant and Chemistry of the Academy of Sciences of the Republic of Uzbekistan and the Samarkand Institute of Veterinary Medicine dated January 27, 2020, developed by the Institute of Plant and Chemistry of the Academy of Sciences of the Republic of Uzbekistan. "The results of the addition of the nutritional supplement were tested and studied in experiments in ostriches.

**Materials and methods.** The experiment consisted of 24 head of ostriches, with 4 groups of 6 heads in each group, ie control group 1, experimental groups 2, 3, and 4.

The age of the ostriches selected for the experiment was based on the relative constant of average body mass.

Ostriches in control group 1 were given a balanced diet.

In addition to the balanced feed for the ostriches of the 2nd experimental group, the Panaroot-98 feed supplement was supplemented with 10 g per 1 ton according to the instructions for supplementation.

In addition to the balanced diet of the ostriches of the 3rd experimental group, Panaroot-98 feed supplement was added at the rate of 20 g per 1 ton.

In addition to the balanced diet of the ostriches of the 4th experimental group, Panaroot-98 feed supplement was added at the rate of 50 g per 1 ton.

In all cases, indicators such as an increase in the amount of hemoglobin in the blood of ostriches, changes in the number and quality of erythrocytes, the amplitude of changes in the form elements in the blood, an increase in body mass were taken into account.

**Results analysis:** Results obtained when 12-month-old ostriches were supplemented with Panaroot-98 for 12 months (ie up to 24 months):

1. In 1 control group, 1 in 6 of 12-month-old ostriches died (16.3%). The conservation rate is 83.7%.
2. At 24 months, their body mass averages 102 kg (%).
3. In the 2nd control group, no deaths were observed in ostriches at 12 months of age when Panaroot-98 was given 10 g per 1 ton. The preservation percentage is 100%.
4. At 24 months, their body mass averaged 112 kg (%)
5. In the 3rd control group, no deaths were observed in ostriches from 12 months of age when Panaroot-98 was given 20 g per 1 ton. The preservation percentage was 100%.
6. At 24 months, their body mass averaged 123 kg (%)
7. In the 4th control group, no deaths were observed in ostriches at 12 months of age when Panaroot-98 was given 50 g per 1 ton. The preservation percentage was 100%.
8. At 24 months, their body mass averaged 153 kg (%). Also, ostriches in this experimental group laid their first eggs at 25 months of age.

(It should be noted that ostriches naturally reach reproductive age at 4 years of age).

**Conclusion:.**

The effectiveness of Panaroot-98 nutritional supplement was taken into account by the percentage of ostriches preserved, positive blood counts and weight gain.

**List of used literature:**

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