

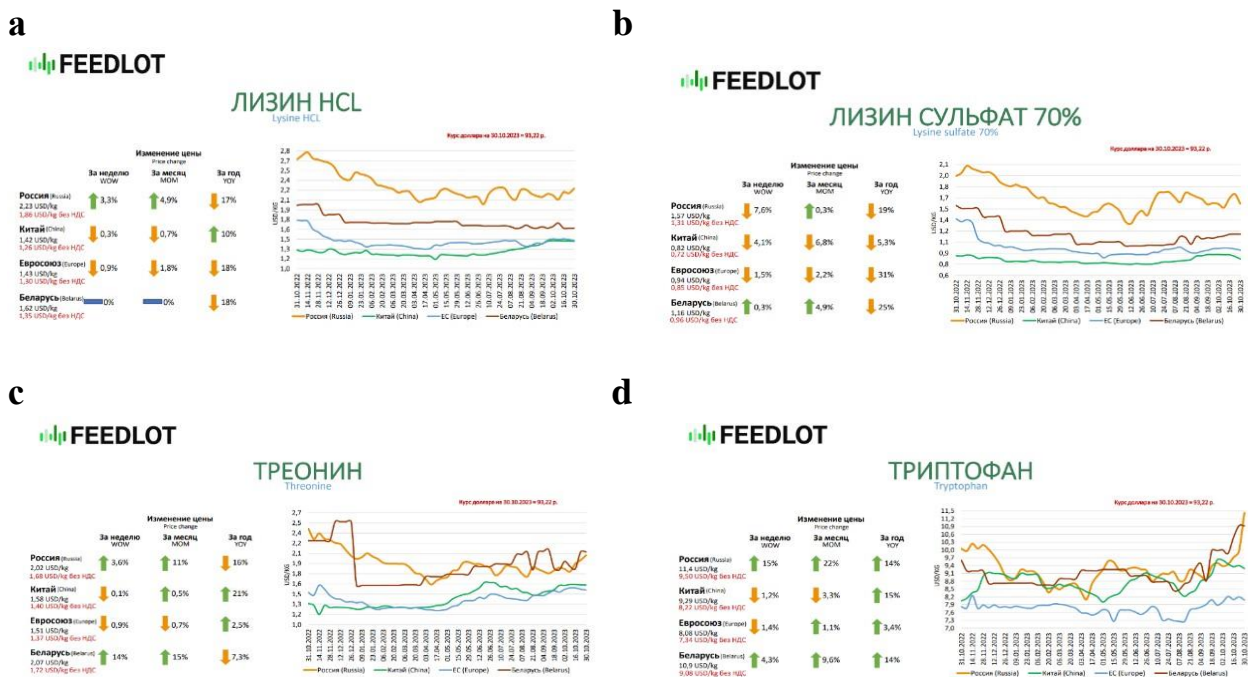
PRODUCTION OF FOOD ADDITIVES IN THE BUSINESS INDUSTRY

Производство пищевых добавок в бизнес-индустрии

In the modern world, biotechnological companies are in demand. Biotechnology has found application in medicine, the food industry, animal husbandry and crop production. In Belarus, a lot of efforts and funds are invested in agricultural production, consequently, it is necessary to produce or purchase funds to maintain this industry at a high level. If we talk about animal husbandry, we understand that farmers use food additives in the diet of animals. One of these additives is amino acids. Amino acids are vital nutrients that the body can get from food or synthesize on its own. The Belarusian National Biotechnology Corporation produces three essential amino acids L-lysine (in two forms), L-threonine and L-tryptophan.

The purpose of the study: to study the market value of amino acids produced at BNBC and on the world stage.

The Feedlot portal was used to research the market for the production of three amino acids. Analytical information shows that Belarus is a big competitor among Russia, China and the European Union (See Fig).



Analytical information on the prices of amino acids of the Feedlot portal

The diagrams reflect the dependence of the price change per kilogram of goods during the year. **a**, diagram shows that Russia offers the highest price, but at the same time the cost has fallen by 17 percent during the year. The same trend is observed in Europe and Belarus. However, the cost of Chinese raw materials increased by 10 percent. **b**, the diagram reflects a similar distribution as in diagram a. Russia offers the highest price per kilogram, but the price for the year also fell by 19 percent. The biggest change in value is observed in Europe – it decreased by 31 percent. **c**, the price per kilogram for threonine increased in Europe (2.5%) and in China (21%). There is a noticeable sharp change in the cost of Belarusian production in December 2022. Russia is a great competitor to Belarus in the sale of threonine. Both countries have reduced the cost for the year. **d**, Belarus, Russia and China are actively competing for the sale of tryptophan. All participants are characterized by an increase in prices during the year.

The results of the study. Based on the data, the following conclusion can be made: Russia is the leader in sales of lysine in two forms, while Belarus ranks second. Both countries are characterized by a drop in prices over the year. The production of threonine and tryptophan is more competitive for all the countries represented. But this did not prevent the prices of tryptophan from rising in all the countries studied. The production of amino acids is a very important business in Belarus. The Belarusian National Biotechnology Corporation closes the demand for the purchase of amino acids with its products. This means that new partners and buyers are attracted, this increases the recognition of the country, and also increases the economic indicators of our country.

References

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2. Analytical review of the feed amino acids market [Electronic resource] // Feedlot. – Mode of access: <https://feedlot.ru/analitika/amino/> – Date of access: 11.11.2023.