

RESEARCH BLUE-GREEN ALGAE SPIRULINA PLATENSIS

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It is well known that the quality of food depends largely on our health and longevity. Its importance to human overestimated. Balanced, balanced diet, including protein, fat, carbohydrates, fiber, vitamins and minerals, you can move to the 20-30 years old age and thus extend their life, to cure many chronic diseases.

In the current situation in Ukraine, the most effective, economically feasible and scientifically sound way to optimize the structure of supply and the shortfall of natural components is widely used dietary supplements. In the biological concept of human development fit well with the blue-green algae - *Spirulina platensis*.

It is known that spirulina - the most valuable and useful product in the world. It is a living organism, keeping intact millions of years due to its unique biochemical composition.

Balanced by the nature of vitamins, minerals and amino acids are amazing - 1 gram of dry spirulina powder contains not less nutrients than 1 kilo of fresh vegetables and fruits.

Biomass is spirulina contains all the substances that are necessary for human life, and they are absorbed by the body much easier than similar materials in other products.

Dried Spirulina contains about 60% (51–71%) protein. The protein content in high concentrations does spirulina unique product for vegetarians, which is so important for plant protein.

In modern civilization, the ability of spirulina effectively rid the body of toxins, toxins, radionuclides is particularly relevant. For people living in big cities Spirulina should become a regular feature of the daily diet.

One of the most pressing challenges of biotechnology is driven biosynthesis of microalgal pigments such as chlorophyll, carotenoids, xanthophylls, phycobiliproteins.

It is important that the pigments derived from herbal ingredients, not toxic. We also know that in the incoming spirulina plant pigments phycocyanin, chlorophyll A, carotenoids, which are powerful antioxidants, showing bactericidal effect.

At the department of biotechnology research pharmacy are blue-green alga *Spirulina platensis*, namely its antimicrobial properties.