



ODESSA NATIONAL ACADEMY OF FOOD TECHNOLOGIES

DEVELOPMENT OF TECHNOLOGIES OF EXTRACTS FROM PLANT RAW MATERIAL

Purpose and scope

In plant material, many useful substances, which are found in equal, and sometimes in higher concentrations than in the used drugs. Vegetable extracts from such raw materials are unique complexes of vitamins, macro and microelements, which since ancient times have been developed for treatment of people from many diseases, and also as a preventive and healing remedy. Phytoconcentrates play a decisive role in adapting the organism to the adverse effects of the environment, in strengthening the health and harmonious development of people.

Important indicators that characterize the level of scientific output

The possibility of using electromagnetic radiation during extraction of plant material, which is a promising direction, is studied, since its application allows not only to increase the efficiency of the process, to reduce the dimensional characteristics of the equipment and to reduce the amount of electric energy consumption, but also to improve the quality of the product obtained by inactivating the oxidative enzymes in plant tissues, reducing the amount of microflora

Intellectual Property Protection Status

We received 3 patents of Ukraine for utility model

Key Features

On the basis of plant material, samples of phytoconcentrates were developed. The method allows you to extract extracts with a concentration of dry substances of 80% and even higher. The recipes and technologies of beverage based on plant extracts have been developed. The biological activity of the drinks obtained is 147-187. but with concentrated extracts up to 14,000. unit

Market demand

The obtained phytoconcentrates can be introduced at catering enterprises as a component of dishes and beverages, as well as industrial enterprises producing extracts from plant raw materials.

The state of work

The study of organoleptic and physico-chemical parameters of all developed product samples was conducted. Technical documentation received - TI and TU and temporary technological cards.



DEPARTMENT OF THE NORMATIVELY-TECHNICAL
PROVIDING AND METROLOGY

65035, Ukraine, Odessa, Kanatnaya str., 112
e-mail nauka@onaft.edu.ua (for Danylova Olena)
<http://www.onaft.edu.ua>
tel./ fax: +38 (048) 724-28-75, +38(048)712-41-30