

Intelligent device for personalized selection and dosing of natural nutrients based on genetic and biochemical data is designed as a standalone module with a fully automated operating cycle and includes a data analysis unit, a container unit for storing natural bulk ingredients, a dosing system, a control system, and an output unit for the finished mixture. Wherein, all of these elements are placed in a single housing made of transparent food-grade plastic. The data analysis unit, located in the upper part of the housing, contains a user identification module with an interface for reading DNA data and biochemical blood analysis from external media, a data processing module for determining individual nutrient deficiencies and creating a recipe for the recommended mixture, as well as a communication module for connecting to a mobile app and a cloud server. The container unit is designed as a transparent, solid container with eight separate compartments, each with a volume of 0.5 liters, each compartment is equipped with a transparent lid for visual control of the filling and a weight sensor integrated into the lower part to control the mass of the contents. The dosing system contains eight electric motors, each of which is kinematically connected to a shaft on which a screw element is mounted, wherein the arrangement of the screws corresponding to the placement of the containers in the block. The control system is microcontroller-based, housed in a separate compartment in the central part of the housing, with the ability to adjust ingredient selection and dosing according to the specified recipe, while the control system interface is located on the housing lid. The output unit for the finished mixture forms the lower section of the container block and integrates with the dosing system, which, through corresponding openings, provides controlled delivery of ingredients into a removable receiving container located on a support platform and capable of being removed or installed via lateral displacement.