



COMPOUNDS AND THEIR USE AS PREPARED MEDICINES

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Compounds (Species) are a mixture of chopped or ground parts of medicinal plants (roots, stems, rhizomes, flowers, fruits, and hyacinths), which may include various salts, essential oils, and other substances.

The kits are produced in the pharmaceutical industry and delivered to pharmacies in a ready state. They are considered as an incomplete medicine, and after the patient receives the kit from the pharmacy, he prepares a tincture or decoction for drinking, rinsing, and bathing according to the doctor's instructions. The pile is heated to relieve pain. Compounds are produced in thick paper boxes with parchment paper of 50, 100, 200 g. Briquettes made from them are also produced on an industrial scale and used in medical practice to prepare tinctures and decoctions.

If we analyze the production of medicinal plant products by preparing and packaging them on an industrial scale by local producers, 90 (12.14%) of the 741 finished medicinal products registered in the Republic of Uzbekistan produced by local producers are medicinal plant raw materials. Only 2 of the mentioned 90 named medicinal plants are aggregates, which is 2.2%.

It should be noted separately that bringing medicinal plants to our republic and transferring them to the State Register in the CIS countries and foreign countries was not observed at all.

Analyzing medicinal plants according to local producers, Asel KhTK - 26, Gerbofarm - 15, Medicinal plants LLC - 10, Astra farm Co LLC, Zamona Rano KK and special forestry named after Ibn Sino - 6, Mirzahid Iskandar TF and Mekhrigiyo KK - 5, Neogalenpharm - 3, Institute of Chemistry of Plant Substances - 2, Salvare LLC, Avicenna IIB, Aktash JSC and Uzkimyofarm OJSC - 1 are packing and producing raw materials of medicinal plants as semi-finished products.

In this regard, scientists of the Tashkent Pharmaceutical Institute have been carrying out great practical work in recent years. In particular, the composition technology of "Diasil" aggregate was developed, and the type and amount of amino acids in the finished aggregate were studied. Also, the analysis of the essential oil contained in this collection was developed by the GX-MS method.

The proportion of plant raw materials included in the composition of "Stiflos" composition intended for urination was selected, the amount of essential oil in the composition and the components of essential oil, as well as the composition of elements of the composition were determined. Also, the complex of polyphenols in the aqueous extract obtained from this collection was determined. The amount of amino acids in the composition of the compound was determined and MTX was submitted for approval for production.

The composition and technology of "Flegman" compound, which has a calming effect, is proposed, and its pharmacological effect is studied. Also, the composition of amino acids of this collection was studied, and its elemental composition was also analyzed. Just as every new drug being developed is standardized, the methods of standardization of "Flegman" compound, which has a sedative effect, have been developed. The amount of biologically active substances in the composition is determined.



In addition to these compounds, the "Bozorov" compound was also proposed, and its embryotoxic and teratogenic effects have been studied today.

Since ancient times, people have known the use of medicinal plants in the treatment of one or another disease. Over time, medicinal plants began to be divided into groups for the treatment of certain diseases. For example, a number of plants used in stomach-intestinal diseases, used in cardiovascular diseases, etc. Later, doctors Ibn Sina, Beruni and others also treated patients by creating combinations of medicinal plant products with similar healing properties.

Medicinal compounds (Species) are among the types of drugs that are easy to use at home. They consist of a mixture of crushed parts of several medicinal plant products intended for the treatment of a specific disease. Medicinal preparations and teas are not divided into fixed doses, when consuming them, for example, take a tablespoon or a teaspoon of the preparation and infuse it in a glass of boiling water and drink 1/2 or 1/3 cup, etc. That is why herbal preparations and teas do not contain poisonous or potent medicinal plant products.

Medicinal preparations and teas can be as follows depending on their use:

1. Composts and teas that are pressed (or tied) on the sore ground by heating (or boiling).
2. Collection and teas intended for bathing.
3. Compounds and teas for preparation (consumption) of infusions and decoctions.
4. Compounds and teas recommended for smoking.

These compounds and teas were previously prepared in pharmacies. However, due to the lack of possibility to grind a large amount of medicinal plant products in pharmacies, later medicinal plant products intended for medicinal preparations and teas were ground and mixed and packed in the enterprises of the pharmaceutical industry. After the VFM (provisional pharmacopoeia article) drawn up for all medicinal plant products included in herbal medicinal preparations and teas approved for use, special production enterprises are allowed to package this medicinal preparation after approval by the Pharmacopoeia Committee. Medicinal plant products (linden, cowtail and chamomile flowers, except for some fruits and seeds) are crushed in these enterprises. It is passed through a suitable sieve specified in MTX (normative-technical documents) and taken in the specified amount and mixed until a uniform mixture is obtained. Plant product powder (powder) is sifted through a mesh sieve with a hole diameter of 0.18 mm and placed in containers (cardboard boxes) specified in MTX. A label with the name, composition, use, preparation technology and other information of teas is attached to the cardboard boxes.

Medicinal preparations and teas prepared in this way are analyzed according to all quantitative indicators specified in VFM in a laboratory with a special license after passing the technical control and laboratory control of the enterprise. Only after that, prepared medicinal kits are sent to pharmacies.

The analysis of medicinal preparations and teas is to determine the authenticity and quantity of all medicinal plant products in their composition, to prove that their ratio is correct and that there are no foreign impurities.

The degree of grinding of the products included in the medicinal preparations and teas is indicated in the MTX prepared for this preparation. The tops and barks of the leaves are cut off, the thick leaves are turned into a large powder, and the roots and rhizomes are cut and crushed according to their shape, size and hardness. Fruits and seeds are crushed in a mill, soft (soft) fruits are taken whole, flowers and flower clusters, baskets are taken whole or crushed.



However, the crushed product is always separated from dust by sifting through a sieve with a diameter of 0.18 mm. If there are salts in the ingredients of the teas, then it should be mixed with a solution saturated with salt and mixed with the ground product after it has been spray-dried.

Essential oils are also mixed by spraying in an alcohol solution (1:10 ratio).

Appearance of assemblies. Compounds are the specific morphological features of crushed medicinal plant products. A specific smell and taste is determined in the aggregates. The taste of the aqueous extract is prepared and then determined.

Determining the authenticity of assemblies. An average sample of 10 g of analytical sample is taken for determination. The obtained analytical sample is closed on a flat surface, its components are identified and separated according to their appearance, and the small ones are separated by looking through a magnifying glass.

If there are very small ones that are difficult to identify, 25-30 of them are separated and a micropreparation is prepared and identified under a microscope.

Crushed powders are analyzed according to the instruction-key compiled for the analysis of powdered medicinal plant products. All tested powder particles must have diagnostic signs specific to the medicinal plant products included in the collection.

Numerical indicators of assemblies and teas

Compounds:

- the amount of the main active bioactive substance is determined. The determination is given in MTX formulated for this medicinal plant product;
- humidity;
- amount of total ash and ash insoluble in 10% hydrochloric acid solution;
- degree of grinding;
- organic compounds;
- mineral mixtures, etc.;

Medicinal herbs and teas are made into tinctures or decoctions for consumption at home according to the recommendation of doctors.

The medical industry produces the following aggregates and teas.

Hand drive assemblies:

Peppermint leaf - 33.3 g

Fennel fruit - 33.3 g

Valerian root with rhizome - 33.3 g

Chest pack #1

Cauliflower root - 40 g

White pepper leaf - 40 g

Tograykhan surface - 20 g

Chest pack #2

White pepper leaf - 40 g



Zubtutum leaf - 30 g

Licorice root - 30 g

Chest pack #3

Cauliflower root - 40 g

Licorice root - 40 g

Fennel fruit - 20 g

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