

DEVELOPMENT OF TECHNOLOGY OF ORODISPERSIBLE TABLETS WITH ELEUTHEROCOCCUS EXTRACT

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Introduction. Often people may feel inconvenience in swallowing conventional dosage forms such as tablet and capsule when water is not available, in the case of the kinetosis (motion sickness) and sudden episodes of coughing during the bronchitis, allergic condition and common cold. For these reason, tablets that can quickly disintegrate in saliva have attracted a great deal of attention. Orodispersible tablets are new types of tablets that disperse in the oral cavity within 60 seconds.

Siberian Ginseng (*Eleutherococcus Senticosus*) is useful for maintaining good health, stimulate resistance to stress, restore vigor, improve the memory and increase longevity. It has been used during convalescence and in the treatment of geriatric debility, menopausal problems and a plenty of other ailments.

For adults and children over 12 years tonic herbal medications are prescribed by doctors which should be taken 1-2 tablets 2 times a day for an interval of 15-30 days. Some patients e.g. travelled community are not able to take the complete course due to some reasons. So orodispersible tablets of eleutherococcus are very acceptable dosage form.

Aim. Development of the scientifically and experimentally grounded technology of the tonic medicine on the basis of substance eleutherococcus dry extract (10:1) in an orodispersible tablets form.

Materials and methods. The research methods were used for tablets according State pharmacopoeia of Ukraine.

Results and discussion. The orodispersible tablets were obtained by direct pressing. The sequence of component mixing is very important point during the preparation of medicines. One tablet contained 100 mg of eleutherococcus dry extract. All ingredients were passed through 60 mesh sieve separately. The extract, 1% aerosol, croscarmellose, avicel PH102, mannitol and aspartame were mixed up using a lab mixer. The blends were lubricated with 1% magnesium stearate. The ingredients mixture was compressed into tablets on a laboratory scale single-punch tablet press using a punch with a diameter of 10 mm. The total tablet weight was 300 mg. Tablets prepared were flat. After ejection, the product was stored in airtight containers.

Conclusions. The orodispersible tablets with eleutherococcus extract were estimated for all pharmaco-technological parameters which were found to be within the acceptable limits.