



## OP-05 DEVELOPMENT OF THE TECHNOLOGY OF KROSTOPIDIN PREPARATION PRODUCTION FROM THE AERIAL PART OF *CAPPARIS SPINOSA* PLANT

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### INTRODUCTION

*Capparis spinosa* is a medicinal plant widespread in the territory of the Central Asia. This plant can be collected by hundreds of tons per year without damage to the natural resources. At present, the fruits of this plant as a foodstuff have been consumed by the local population in many countries.

### MATERIALS AND METHODS

As reported in literature, *Capparis spinosa* aerial part contains more than 2% of alkaloids. Stachydrine, choline and a few unidentified alkaloids were founded in its chemical composition, stachydrine alkaloid is the main alkaloid, its' content is approximately 50% of the total alkaloids.

Researches carried out in the Pharmacology and Toxicology Department of our Institute led to development of the preparation Krostopidin with haemostatic, hypotensive, sedative and anti-inflammatory properties on the base of stachydrine alkaloid.

### RESULTS AND DISCUSSION

In order to develop the technology of Krostopidin preparation based on stachydrine alkaloid the physical and chemical properties of stachydrine were investigated. It was found that the alkaloid is a very soluble in water, but not in organic solvents, so aqueous of alcohol was selected as extragent. The technology of Krostopidin manufacture using of ethanol solution as an extragent was developed. This technology was used for providing of sufficient amounts of the preparation for preclinical pharmacological and toxicological researches and for the development of regulatory and technical documents for clinical trials. The quality and quantity of the preparation was tested by thin layer chromatography, chromato-spectro-photometry and other instrumental methods.