## DEFINITION OF ANTIEXUDATIVE ACTIVITY OF WATER AND ETHANOLIC EXTRACTS OF SALSOLA COLLINA PALL. ON A MODEL OF ZYMOSAN-INDUCED EDEMA OF PAWS IN RATS.

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Today is increased interest to medicinal plants as a source of biologically active substances to create on their basis highly effective drugs with a wide range of pharmacological actions. From this point of view, Salsola collina Pall. is a perspective plant, hepatoprotective properties of which have been known in traditional medicine for a long time. Object of the research became water and 30% and 50% ethanolic extract of Salsola collina Pall.

Aim of this work was to determine the anti-inflammatory properties of extracts of Salsola collina Pall. on the model of exudative inflammation caused by zymosan (0.1 ml per animal in 2% suspension) in rats. Examined drugs were administered intragastric prophylactically during 4 days daily at a dose of 5 mg / kg. Last administration was made in 40 minutes before simulation of inflammation. As a reference drug were used granules of quercetin 50 mg / kg, which were administered in the same mode. Efficiency of the extracts was assessed by the ability of the extracts to reduce edema compared to positive control animals in dynamics within 3 hours.

It is established, that prophylactic administration of extracts prevented development of paw edema of rats. The biggest effectiveness was identified in 50% ethanolic extract of Salsola collina Pall., anti-inflammatory activity of which in average was 32%, less expressive effect showed water extract - 24%. Ethanolic extract of Salsola collina Pall. 30% showed weak antiexudative effect by inhibiting paw edema in animals for only 9%.

Since the major mediators of the development of zymosan inflammation is are leukotrienes, obtained results suggest the presence of antileukotriene activity in ethanolic and water extracts of Salsola collina Pall. as a part of anti-inflammatory action. Research of phytochemical composition of plants found, that along with a high content of various amino acids, Bupleurum aureum contains large amounts of quercetin for which is proven the ability to inhibit the release of leukotrienes in inflammation. Perhaps, the presence of quercetin in water and ethanolic extracts of Salsola collina Pall. provides a clear antiexudative effect on this model. It should be noted that for the expressive antiexudative action 50 % ethanolic extract of Salsola collina Pall. is equal to reference drug - granules of quercetin.