

**NEUROPROTECTIVE AND ANTI-OXIDANT ACTION OF THE PLANT REMEDY «THYREOTON» IN THE
EXPERIMENTAL HYPOBARIC HYPOXIA**

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SUMMARY

The influence of plant remedy «Thyreoton» (dry extracts of *Potentilla alba* L., *Rhodiola rosea* L. and *Scutellaria baicalensis* Georgi underground parts in proportion 50:25:25) on the mitochondrial energy production and antioxidant status of was studied using an experimental model of acute hypobaric hypoxia in white rats. It was found that the preliminary application of the remedy reduced the metabolic disorders in brain structures. Also, the intensiveness of the oxidative phosphorylation processes induced. It led to increasing in coefficients of respiratory stimulation and respiratory control of mitochondria. «Thyreoton» administration caused an increase in catalase activity and in content of reduced glutathione, as well as malondialdehyde level in brain tissue decreased.

Key words: plant remedy «Thyreoton», hypoxia, brain, mitochondrion, phosphorylation, lipid peroxidation, antioxidant activity.