

Thematic course: Influence of biologically active compounds on the composition, structure and content of the major biosynthesis products of plants. Part 1.

The influence of plants processing with herbicides on biosynthesis of essential oil *Mentha piperita* L. of the grade Yantarnaya

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Abstract

In vegetative experiment there have been studied the influence of different concentrations of herbicide, which is the subject of a patent registration – the inhibitor of phytoindesaturaza (group HRAC:F1), on the content and composition of essential oil *Mentha piperitha* L. of the grade Yantarnaya. It has been found out that on treating with the preparation, depending on its concentration, there are significant changes in the ratio of basic EO components. The action of the preparation is not directly connected with blocking phytoindesaturaza.

The oil composition was determined in teaching and research center for collective use - Service Lab of complex analysis of chemical compounds RSAU-MSHA named after Timiryazev using the hardware-software complex GLC-MS *Clarus 600 C*.