

Action Efficiency of Natural Growth Regulators in The Cultivation of Spring Barley

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Abstract

The article presents the results of studies on the effect of growth regulators of natural origin of steroid nature on spring barley plants of the Iney variety. It has been shown that genistifoliosides isolated from the aerial parts of *Linaria genistifolia* L., fam. Scrophulariaceae have a regulatory effect on spring barley plants. Under the conditions of a field small-plot experiment, they stimulate the growth and development of plants. They enhance the photosynthetic activity of plants, the accumulation of plastid pigments in the assimilation organs of plants. In the phases of ontogeny responsible for the harvest, in the of exit into the tube and heading phase, stimulate the accumulation in plant organs (leaves, stems, ears) of raw and absolutely dry biomass. Promote to the increase in indicators of productivity and yield of varieties. Under unfavorable conditions (during the period of drought), an anti-stress effect is manifested, an action similar to the drug Ecostim, of steroid origine.

Keywords: Growth regulators, Steroid glycosides, Spring barley, Growth, Plastid pigments, Productivity