RESPONSE OF SEED VIGOR OF SUGAR BEET HERBICIDES CHLORIDAZON AND CYCLOATE IN VITRO
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ABSTRACT
In order to predict the response of Cycloate and Chloridazon on vigor of sugar beet seeds, a lab research was carried out in Seed Technology Laboratory, Mashhad Branch, Islamic Azad University in 2013. This research was done in two separate experiments in a completely randomized design with 14 treatments and three replications. Treatments consisted of Cycloate at doses of 0, 18.175, 36.35, 72.7, 145.4, 290.8 and 581.6 g a.i./ha and Chloridazon at doses of 0, 37.5, 75, 150, 300, 600 and 800 g a.i./ha. The results showed that the seed vigor percentage sensitivity of sugar beet at different doses of Cycloate were more than Chloridazon. So that the effective dose Cycloate and Chloridazon to reduce germination of 50% compared to control (ED50) were 37.28 and 260.56 g a.i./ha respectively.

Keywords: Chloridazon, Cycloate, Dose-response, ED50, Sugar beet