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**Study of the ability to stimulate systemic resistance of plant derivatives 1,2,3-selenodiazolylureas**

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 **Annotation.**

 A large loss of yield of agricultural plants is mainly associated with fungal and bacterial infections of plants. This is due to the fact that viruses completely infect the vascular system of plants. For the control and treatment of these diseases, according to the method developed by us, structural analogs of synthetic activators of SPU, thiadinyl and methiadinyl, derivatives of 1,2,3-selenodiazolylureas 1a-m were obtained.

**Key words:** elicitors, systemic acquired resistance, SPU inducers, 1,2,3-selenodiazole.



**1k 1l TDL water**

Figure 1. Tobacco leaves treated with compound 1k, 1l, TDL, water

Continuation of the text of the published material ... (Table 1).

Table 1

Properties of the new material

|  |  |
| --- | --- |
| Properties | Sample number |
| Sample No. 1 | Sample No. 2 | Sample No. 3 |
| Seedling length, cm | 55 | 66 | 77 |
| Elongation, mm | 12 | 23 | 34 |

Thus, in the course of the experiment, we have found compounds in the series of 1,2,3-selenodiazoles that stimulate the SPU of plants at the level of a commercial preparation of thiadinyl.

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**Table**

Common abbreviations for designations of academic degrees, titles,

posts

|  |  |
| --- | --- |
| Academic degrees | Academic titles, positions |
| full title | abbreviation | full title | abbreviation |
| academiciandoctorcandidatemedicalbiologicalchemicalpharmaceuticalphysicalphysical and mathematicaltechnicalphilologicalhistorical sciencesCorresponding Member of the National academy | acad.drcand.med.biol.chem.pharm.phys.phys.-mat.tech. phil.hist. sciencesCorresponding Member nat. acad. | Professorassistant professorassistantolderteachergraduate studentundergraduatedoctorinternresident | prof.Assoc.assist.Art.Rev.asp.master.doctorinternresident |