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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 |
| academician  doctor  candidate  medical  biological  chemical  pharmaceutical  physical  physical and mathematical  technical  philological  historical sciences  Corresponding Member of the National academy | acad.  dr  cand.  med.  biol.  chem.  pharm.  phys.  phys.-mat.  tech.  phil.  hist. sciences  Corresponding Member nat. acad. | Professor  assistant professor  assistant  older  teacher  graduate student  undergraduate  doctor  intern  resident | prof.  Assoc.  assist.  Art.  Rev.  asp.  master.  doctor  intern  resident |