

Translation from Bulgarian



www.au-plovdiv.bg

АГРАРЕН УНИВЕРСИТЕТ - ПЛОВДИВ  
AGRICULTURAL UNIVERSITY - PLOVDIV

**АГРАРЕН УНИВЕРСИТЕТ**

Пловдив 4000, бул. Менделеев № 12, Тел. +359/32/654300; Факс +359/32/633157

**AGRICULTURAL UNIVERSITY**

Bulgaria, 4000 Plovdiv, 12 Mendeleev Str., Tel +359/32/654300, Fax +359/32/633157

## Report for *in vivo* tests in containers with Panatop Amino D

Place of conducting: Laboratory of Phytopharmacy and Ecotoxicology of Pesticides, Agricultural University - Plovdiv

Methodology: Standard *in vivo* tests were conducted with 2 wheat varieties. „Avenil C2“ and „Tsarevets“. Measurements were taken 14 days after the treatment of the plants by determining the length of the plants before and after the treatment, the presence of phytotoxic manifestations such as necrosis, chlorosis, deformations of the above-ground parts of the plants and the roots.

### Results:

Variety „Avenil C2“

Trial group	% change compared to the control group
Panatop Amino D - 0.5 %	12.5 %
Panatop Amino D - 0.7 %	15.7 %
Panatop Amino D - 1.0 %	45.6 %

Variety „Tsarevets“

Trial group	% change compared to the control group
Panatop Amino D - 0.5 %	13.01 %
Panatop Amino D - 0.7 %	16.0 %
Panatop Amino D - 1.0 %	44.7 %



## Conclusion

The tested product Panatop Amino D was able to significantly stimulate plant growth and development even 14 days after the treatment, while the 1% solution had the strongest effect. No phytotoxicity was manifested in the treated plants. There were no statistically proven differences between the two tested varieties in the ANOVA analyzes ( $p > 0.05$ ).

Agricultural University – Plovdiv

January 23, 2023

Associate Professor DSc Donyo Gunchev: *(Signature – illegible)*

*Round seal of Agricultural University – Plovdiv*

---

*I, the undersigned Djeylian Mancheva certify herewith the fidelity of the performed translation from Bulgarian into English of the attached document. The translation consists of 2 (two) pages.*

Translator: \_\_\_\_\_

*Djeylian Mancheva*

