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PHYSIOLOGY AND PLANT PROTECTION

Scientific Research Laboratories:

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HR EXCELLENCE IN RESEARCH

## Use of (Z)-4,4-dimethyl-1-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-yl)pent-1-en-3-one as a fungicidal remedy against *Alternaria alternata* and *Fusarium aquaeductuum*

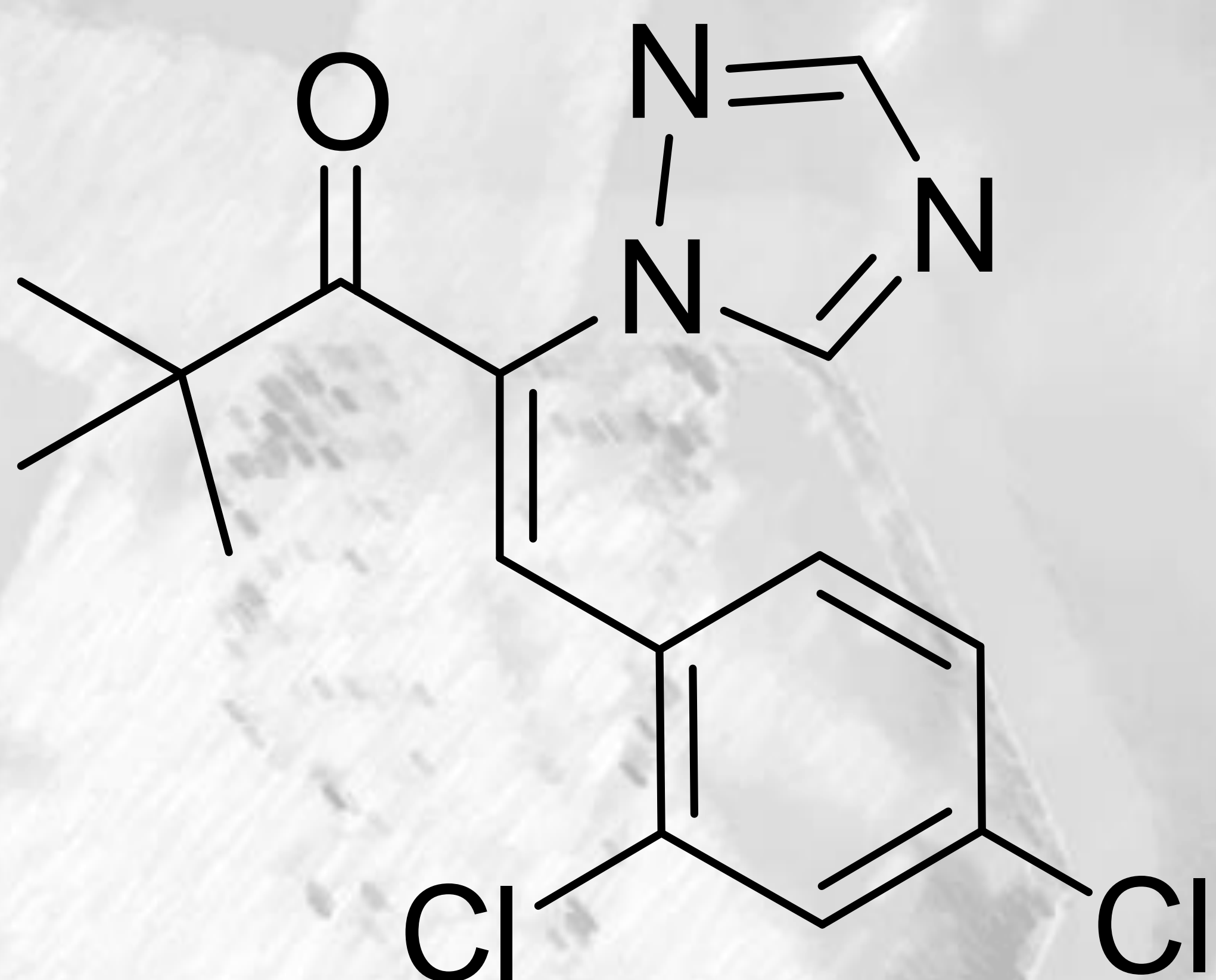
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APPLICATION FIELDS: Chemistry and Agriculture

AIM: Expanding the range of compounds from the class of 1,2,4-triazoles with fungitoxic activity that could be successfully used in agriculture to combat the root rot caused by the *A. alternata* and *F. aquaeductuum* fungi.

SOLUTION: It was synthesized the compound (Z)-4,4-dimethyl-1-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-yl)pent-1-en-3-one that is highly active against the phytopathogenic fungi of the *A. alternata* and *F. aquaeductuum* species.



Control



Compound (0,01%)

*F. aquaeductuum*

ADVANTAGES: The compound (Z)-4,4-dimethyl-1-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-yl)pent-1-en-3-one contributes to the increase of the fungitoxic activity in comparison with the closest prior art by 10...25% for the fungus *A. alternata* and 18...33% for *F. aquaeductuum*.

IMPLEMENTATION STAGE: Laboratory level

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