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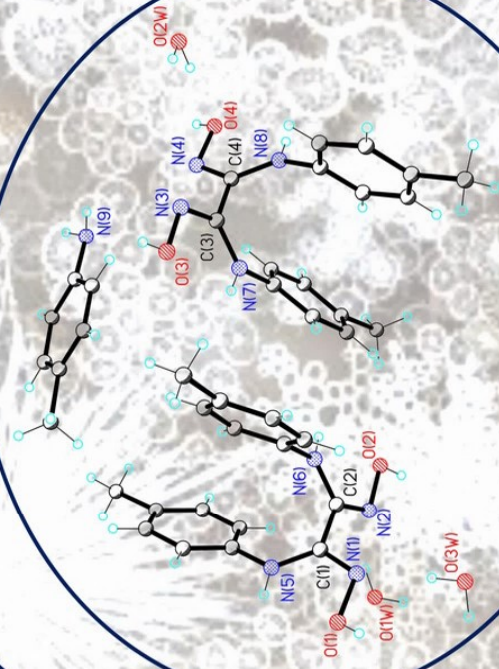
PURPOSE

The invention relates to chemistry, in particular to dioxime bis-di-*p*-aminotolueneglyoxime mono-*p*-aminotoluene trihydrate as a polydentate coordination agent for the purpose of new coordinating compounds obtaining with original and supramolecular structure, as well as to microbiology, intended for use as an antibacterial and antifungal remedy.

SOLUTION

It was synthesized a new coordination agent, obtained from the condensation of *p*-aminotoluene with dichloroglyoxime in a molar ratio of 2:1. This coordination agent has been studied as an antibacterial and antifungal remedy. Non-pathogenic strains of *Bacillus subtilis* CNMN BB-01, *Pseudomonas fluorescens* CNMN-PFB-01 and phytopathogenic strains of *Xanthomonas campestris*, *Erwinia amylovora*, *Erwinia carotovora* were selected as test bacteria for the evaluation of antibacterial activity and as test-fungus strains were selected: *Candida utilis* and *Saccharomyces cerevisiae*.

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The data obtained from the study demonstrate the increase up to 4...8 times the antibacterial and antifungal activity of the invention in comparison with the nearest prior art depending on the tested bacterial and fungal species.

ADVANTAGES

The antibacterial and antifungal properties studied are higher than the nearest solution, at the same time the compound is used as a well crystallized and stable compound.

STAGE

Laboratory tests