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The invention relates to coordination chemistry and biotechnology, in particular to a new coordination compound of iron(III) with 2,6diacetylpyridine bis(picolinoylhydrazone), which exhibits biostimulatory properties of the synthesis of extracellular lipases in the strain of *Rhizopus arrhizus* CNMN FD 03 mycelial fungi and can be used in the development of biotechnologies for the production of lipolytic enzymes.

According to the invention, claimed is the coordination compound

2,6diacetylpyridinebis(picolinoylhydrazone)bis(aqua)iron(III)hydrate(1/2.5) perchlorate, with the formula $[\text{Fe}(\text{H}_2\text{L})(\text{H}_2\text{O})_2](\text{ClO}_4)_3 \cdot 2.5\text{H}_2\text{O}$, wherein H_2L is 2,6diacetylpyridine bis(picolinoylhydrazone). The claimed compound is highly soluble in water, thereby providing practical use as a stimulator of the process of synthesis of exocellular lipases in the strain of *Rhizopus arrhizus* CNMN FD 03 mycelial fungi.

Claims: 1

Fig.: 1