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

According to the invention, a new coordination compound 2,6-diacetylpyridine-bis(picolinoyl-hydrazone)-bis(aqua)iron(III)-hydrate(1/2.5) nitrate with the formula  $[\text{Fe}(\text{H}_2\text{L})(\text{H}_2\text{O})_2] (\text{NO}_3)_3 \cdot 2.5\text{H}_2\text{O}$ , wherein  $\text{H}_2\text{L}$  is 2,6-diacetylpyridine bis(picolinoylhydrazone). The claimed compound is highly soluble in water, thereby providing practical use as a component of nutrient media.

Also, a nutrient medium for cultivation of *Rhizopus arrhizus* CNMN FD 03 fungi strain is claimed, which comprises, g: soy flour - 35.0;  $\text{KH}_2\text{PO}_4$  - 5.0;  $(\text{NH}_4)_2\text{SO}_4$  - 1.0;  $[\text{Fe}(\text{H}_2\text{L})(\text{H}_2\text{O})_2](\text{NO}_3)_3 \cdot 2.5\text{H}_2\text{O}$  - 0.005...0.015; drinking water - up to 1 L. The biostimulant provides for the achievement of the maximum lipolytic activity on the first day of cultivation.

Claims: 2

Fig.: 2