

**98-0157**

The invention relates to a new coordinative compound class on the cobalt and dimethylglyoxime base that can be applied as catalysts and biostimulators in different chemical and biotechnological processes.

The summary of the invention consists in the synthesis of the bioactive compound  $\text{trans-[Co(DH)}_2\text{(thio)}_2\text{]}_3 \text{F[SiF}_6\text{]} \cdot 1,5\text{H}_2\text{O}$ , wherein DH represents dimethylglyoxime anion, thio - thiocarbamide.

The X-ray structural analysis pointed out an unusual combination of different types of chemical bindings and non-valent interactions as well as an unusual end-to-end distribution of the ligands that enables to include in the same individual chemical compound three microelements - Co, Si and F, necessary for development of some microorganisms.

The compound possesses a pronounced property of the biomass accumulation stimulator in the processes for cultivation of microfungi strains from the *Aspergillus* sort.

Claims: 1

Fig.: 5