

Metabolic profiling for characteristics of trichoderma from buried soils

Tukhbatova R., Morozova Y., Alimova F.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Previously, 135 strains of *Trichoderma* isolated from buried soils of Tatarstan have been identified as *T. asperellum*, *T. viride*, *T. atroviride*, *T. harzianum*, *T. hamatum*, *T. citrinoviride* and *T. longibrachiatum*. At this stage, the biochemical analysis of the strains was carried out using the Biolog system, which being a simple screening test enables rapid preparation of strains based on 95 substrates. We have revealed that each species has only a specific substrate utilisation profile. Biochemical analysis provides a large amount of information that can then be used for optimization of biotechnological processes, in particular, the selection of effective nutrient media.

Keywords

Biolog, Metabolic profile, *Trichoderma*