

Enzymatic Decolorization of Acid Blue 350

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The conventional biological wastewater treatment systems are inefficient in treating dye wastewater because of the low biodegradability of dyes. The fungal strain *Funalia trogii* produces a group of lignolytic enzymes, lignin peroxidase, manganese peroxidase and laccase. In this study, to maximize the production of laccase by *F. trogii*, six inducers were tested for their ability to enhance enzyme production. Among them, CuSO_4 was found to be the most effective. Under the optimized conditions (0.5 mM CuSO_4 added at 24 hr after inoculation), the maximal laccase concentration was 22.8 U/mL. After purification, free and immobilized laccases were used to degrade Acid blue 350.