

Pesticide Effect on Kinetic Properties of Catalase Enzyme

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ABSTRACT

Catalase is a metalloenzyme. Contains Cu(II) as the metal ion. It is a detoxification agent for the H₂O₂ compound and protects tissues and cells from oxidative damage [1].

Cryogels are synthetic materials generally used in adsorption and immobilization studies of late years. In this study, it is aimed to investigate how the activity of free and immobilized catalase enzyme will be changed by pesticides (DDE and DDT). This is very important to determine how enzyme activity is affected by environmental pollution. For the characterization of cryogels; swelling test, Fourier transform infrared spectroscopy (FT-IR) analysis, scanning electron microscopy (SEM) analysis.

Keywords

Activity, Catalase, Cryogel, Pesticides.

References

[1] Aktaş Uygun, D.; Uygun, M.; Akgöl, S.; Denizli, A.; (2015) Materials Science and Engineering C, 50 379–385.