

ECOTOXICOLOGY TEST AT ENZYMATIC LEVEL. CHROMATOGRAPHY AND SPECTROPHOTOMETER ANALYSIS FOR INVERTASE, SULPHATASE AND ACID PHOSPHATASE *

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ABSTRACT

This study aims to create a ecotoxicological battery tests by selecting important enzymes from major metabolic pathways or tissue. One enzyme present one reaction rate in optimal conditions to function. Our study wants to test whether nanocompounds can influence enzyme activity to reduce macromolecular tests. To test the activity of enzymes, we used chromatographic analyses and spectrophotometer analyses. Until now we used acid phosphatase, sulphatase and invertase and we optimize the method for each enzymes. The result show us that concentration of buffer and the pH influence the results and we tried to optimized the method for a good results.

Keywords: enzymes, ecotoxicological battery test, invertase, acid phosphatase, sulphatase

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