

Isolation, Characterization, and Optimization of Immobilized L-Asparaginase-Anticancer Enzyme from *Aspergillus.Niger*

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Abstract : L-asparaginase (E.C.3.5.1.1) is an anti-cancer enzyme that has been purified and characterized for decades to study and evaluate its anti-carcinogenic activity against Hodgkin's lymphoma. The present investigation deals with screening, isolation and optimization of L-asparaginase giving fungal strain of soil samples from different areas of AP, India. L-Asparaginase activity was estimated on the basis of the pink color surrounding the growing colony. A total of 132 colonies were screened and isolated from different samples. Based on the zone diameter, L-asparaginase activity is determined, L-asparaginase activity is optimized at 28oc and Immobilized Asparaginase had more potency than the free enzymes.

Keywords : aspariginase, anticancer enzyme, Isolation, optimization

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