ordetion of Pectinase from Aspergillus flavus

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bstract

spergillus flavus is a fungus that principally obtains esources for growth in a saprophytic mode. Yet it also ossesses the characteristics of an opportunistic pathogen vith a wide, non -specific host range (plants and nimals).It is known for a high level of agricultural ignificance due to production of the carcinogen, aflatoxin, which significantly reduces the value of contaminated crops. Studies were carried out on the production of pectinase using dried cashew powder by Aspergillus flavus in fermentation condition. High pectinase activity was observed when medium was supplemented with carbon (4% glucose and 6% sucrose in the fermentation medium) and nitrogen (ammonium sulphate.3% in the fermentation medium) sources. A high yield of pectinase activity (18u/ml) was observed at a fermentation period of 96 hrs with the presence of dried cashew as the substrate compared to the low activity recorded in medium without cashew powder as substrate. It was thus concluded that cashew apple powder is a good substrate for the production of pectinase enzyme by Aspergillus flavus.