ENZYMES PRODUCTION BY MYCOBIOTA AND AFLATO? CONTENTS OF DRIED DATES AND APRICOT IN YEME

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This study was designed to study the mycobiota of dried dates and apricot in Republic. Thirty four dates and twenty four apricot samples were collecte different shops and markets in Sana'a city. They were analyzed mycologicaly presence of fungi on three types of media. Eight species belonging to seven were recovered from analyzed dates samples on the three cultural media. Asp was the most dominant genera on the three types of media of which A. niger most dominant species, while A. flavus was isolated in moderate frequency species belonging to eight genera were recovered from apricot samples Aspergillus was the most dominant genera on the three media. Aspergillus ni the most dominant, but A. flavus was in moderate, while other species were in I Fifty isolates comprising 87.71% of tested fungi were recorded as lipase pro Fifty six from fifty seven studied isolates were able to produce invertase (Forty one fungal isolates representing 71.93 % of tested isolates were c producers. Sixteen fungal isolates representing 28.07 % of tested isolat moderate protease activity. Isolates belonging to Aspergillus flavus, A. n. terreus, A. tamarii, A. versicolor, Curvularia lunata, Fusarium oxysporum, H insolens, Penicillium corylophilum, P. griseofulvum, P. oxalicum, P. stekii, P. vi and Rhizopus stolonifer had high or moderate ability of these enzymes. While, belonging to A. parasiticus, P. variabile, Phoma sp., and Ulocladium atrum ha activity.

Four out of 5 date samples were contaminated with aflatoxins ranged from 30 7585.96 ppt (ng Kg⁻¹). Six out of seven of apricot samples contaminated to 1500 (2 to 1170) (150 kg⁻¹)

aflatoxins ranged from 1786.63 to 11766 ppt (ng Kg⁻¹).

INTRODUCTION

Agriculture is the backbone of the economy and export congreatly depended upon as a source of foreign exchange to productive activities and other essential services. Most of these concereals, fruits, vegetables and oil seeds that are highly susceptible to