



البحث رقم (7)

الملخص الانجليزي

## **Morphological characteristics of fungi species isolated from dairy products in Fayoum governorate**

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Eighty samples of different dairy products were collected from different markets in Fayoum governorate. Samples were examined for incidence of filamentous fungi. Thirty five isolates of fungi were isolated and morphologically identified. The identification of fungi isolates mainly depended on colony characteristics (color and texture) and microscopic appearance including shape and branching of conidiophores, presence or absence of metulae, shape of phialides and texture of conidia. Filamentous fungi were isolated on Sabouraud Dextrose Agar (SDA) medium. Czapek Yeast Extract Agar (CYA) medium was used for the morphological identification of isolated fungi colonies. Lactophenol cotton blue dye was used to stain the microscopic slides of fungi species to prepare to microscopic examination. Then the microscopic images were taken by Canon G6 digital camera at a microscopic magnification power 1000x. The results revealed that all isolates fell into five fungi species classified into (four species of *Aspergillus terreus*, nine of *Aspergillus niger*, nine of *Aspergillus flavus*, eight of *Aspergillus parasiticus*, and five of *Penicillium corylophilum*).

