

## THE MYCOFLORA OF BARLEY - THE VARIETIES EXTENSION CERTIFICATED AT ARDS - TELEORMAN

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### Abstract

Knowing the health of the barley caryopsis holds an important place in this plant's pathology and help the establishment of its control measures, with major consequences in obtaining a high production in terms of quantity and quality. The researches on barley seeds micoflora were carried out in "in vitro" conditions and the biological material used was consisted of untreated barley caryopsis from several varieties: Andrei, Mareșal, Mădălin, Compact, Amical and Dana. The micromycetes' identification realised by successive isolation and sub-culturing on them in culture medium PDA (Potato Dextrose Agar). The pathogens were incubated in thermostat at a temperature of 22°C. The identified micromycetes belonged to the next classes : *Alternaria* sp.- 45%, *Drechslera* sp.-31%, *Macrosporium* sp.-10%, *Fusarium* sp.-5%, *Rhizopus* sp.- 4%, *Penicillium* sp.- 2%, *Aspergillus* sp.-3%. From the analyzed varieties the most affected were: Mareșal, Mădălin and Compact. The micoflora detected on the analyzed barley caryopsis did not inhibit their germination process.

**Key words:**

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