

**A STUDY OF THE BIOLOGY AND PHYSIOLOGY OF *HELMINTHOSPORIUM BICOLOR*  
ISOLATED FROM *STENOTAPHRUM SECUNDATUM***

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**ABSTRACT**

The study of the biology and physiology of *Helminthosporium bicolor* isolated from leaf lesions of its host *Stenotaphrum secundatum* showed good mycelium knowledge on complex media as well as on synthetic media rich in minerals and vitamins. This fungus was able to develop, specifically, on complex environments and less on synthetic media. Rice flour media, PDA, and Richard's Czapeck proved conducive to the growth and sporulation of this pathogenic agent. The light regime is favorable to mycelium growth and sporulation. Optimal temperatures for growth and sporulation of *H. bicolor* are of 20 and 28°C for the pH which ranges between 6 and 8.

**KEYWORDS:** Biology, Physiology, *Helminthosporium Bicolor*, *Stenotaphrum Secundatum*, Pathogen, Mycelium Growth