

E-SMGCI- Effect of salts and media on In vitro study of Mycelial growth of *Calocybe indica*

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The influence of various culture media viz. Potato Dextrose Agar (PDA), Wheat Dextrose Agar (WDA), Malt Extract Agar (MEA) and salts (NaCl, CaCl₂ and MgSO₄) on the mycelial growth of *Calocybe indica* were investigated on three culture media. PDA media supported an excellent mycelial growth rate and density of *Calocybe indica*. While, WDA and MEA were observed to support poor mycelial growth. The mycelia of *Calocybe indica* grew in all three salts and in all the concentrations tested except at 20 and 25% on MgSO₄ where slight mycelial growth was initiated and few days later it withered. Inhibitory effect of different salt was found to be varied at different concentrations. An understanding the effect of culture media and salts on mycelial growth is necessary for future application of *Calocybe indica* as Single Cell Protein (SCP) production.

Biography

Sandeep Kumar Suman pursuing his Master degree in Agricultural Biotechnology from Rajendra Agricultural University Pusa, Bihar and my Research work on "Morphological and Molecular based Diversity Analysis in the *Calocybe indica* isolates from Bihar".

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