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QUALITATIVE ASSESSMENT OF PHYSICAL FACTORS AND PROTEASE INHIBITORS ON PROTEOLYTIC ACTIVITY OF *ASPERGILLUS* ISOLATED FROM SOIL

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ABSTRACT: *Aspergillus* is a highly potent fungus used in the production of protease. In the experiments, qualitative assessment of physical factors and protease inhibitors on extracellular proteolytic activity of *Aspergillus sp.* were carried out. The crude enzyme was stable over a wide range of pH (6-9) and the temperatures up to 45°C. It showed optimum enzyme activity at pH 9.0 and a temperature of 28°C. The crude protease enzyme was completely inhibited by the serine protease inhibitor of phenylmethanesulfonyl fluoride.

Key words : *Inhibitors, pH, Temperature*