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Purification and Some Properties of Metallo Protein Essential for the Growth of Pileus and Basidiospore Fruit Body of *Flammulina velutipes*

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In order to explore the relationship between proteinase and fruit be basidiospore formation in mushrooms, the metallo proteinase from t bodies of Enokitake (*Flammulina velutipes*) was purified and cha proteinase was highly purified (194-fold) with a recovery of 5.90% most active at pH 6.5 toward casein, and stable only within the nau 8.0 even under mild temperature (37°C, 30 min). The molecular we point were found to be 18,000 and pI 6.0, respectively. The enzym by MK-I or synthetic metallo proteinase inhibitors such as ethylene and *o*-phenanthroline. These characteristics were compared with th proteinases, and the possible roles of the enzyme are discussed.

Keywords: *Flammulina velutipes*, metallo proteinase, protease, basidiospore formation, mushroom

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