

Cultural characteristics and Biological activities of an Entomogenous fungus, *Paecilomyces tenuipes* (Peck) Samson

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To develop techniques for the production of *P. tenuipes* stromata on a large scale, the infection of *P. tenuipes* and the growth of stroma were investigated by silkworm (*Bombyx mori*) variety. Also, studied about biological activities of fruiting body formed on silkworm.

Infection rate of the 5th instar larvae of the silkworm with *P. tenuipes* was the highest in Yangwonjam, followed by Hachojam, Baegokjam and Chilbojam in that order. Also, as the inoculation times was increased, infection rate tended to be raised. The rate of fruiting body formation of the silkworm pupae infected with *P. tenuipes* was the highest in Baegokjam, followed by Yangwonjam and Chilbojam in that order. But, actually the fruiting body formation of the 5th instar larvae of the silkworm tested was good in Chilbojam, followed by Yangwonjam and Baegokjam in that order in 3 times spraying inoculation.

Mannitol concentration was high in the fruiting bodies of the silkworm infected with *C. militaris* on a dry weight basis. The fruiting bodies of Yangwonjam and Chilbojam infected with *P. tenuipes* had high amount of Mannitol, but Baegokjam and Hachojam had high concentration of Glucose.

The most abundant amino acid in the fruiting bodies of the Baegokjam, Chilbojam and Hachojam infected with *P. tenuipes* was arginine, while Yangwonjam was Glycine. *C. militaris*, had a large amount of Glycine, followed by Serine.