

Effect of different liquid media on growth and sporulation of *Beauveria bassiana* in stationary culture

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Growth and sporulation of *Beauveria bassiana* was examined on four semi synthetic broths namely Jaggerysoy broth (JSB), Yeast peptone soybean oil broth (YPSB), yeast peptone dextrose broth (YPDB) and Corn meal broth (CMB) in stationary culture. 250 ml conical flasks with 100 ml broth was used and 25 ± 1 °C temperature and 85 ± 5 R.H. was maintained for growth of the fungus. Highest fresh and dry biomass production was obtained from JSB (22.468 g and 1.858 g respectively) after 21 day of inoculation. But highest spore and CFU count was obtained from YPDB (3.29×10^8 spores/ml and 4.11×10^8 CFU/ml respectively) followed by YPSB (3.07×10^8 spores/ml and 4.01×10^8 CFU/ml respectively) after 21 days of inoculation. But there was no significant difference between YPDB and YPSB. The spore and CFU production obtained from JSB was also quite high (2.94×10^8 spores/ml and 3.54×10^8 CFU/ml respectively). But the performance of CMB was not at all promising in any respect.

Key words: *Beauveria bassiana*, liquid media, growth, sporulation