

# **STUDY ON GLOEOSTEREUM INCARNATUM S. ITO ET IMAI - FERMENTATION CULTIVATION (LIQUID FERMENTATION)**

Tai Long Jie

School of Life Science Northeast Normal University, China Changchun

## **Abstract**

It was reported in our previous paper that the fermented products from *Gloeostereum incarnatum* strongly inhibit the growth of six kinds of bacteria in human bodies. In this paper the appropriated conditions of immersing culture for the strain 8903 of *Gloeostereum incarnatum* was analysed. And the output of the hypha and fermentative product was determined or compared. The preliminary results showed that the appropriated conditions for the growth of *Gloeostereum incarnatum* are: (1) culture medium: glucose 3%; protein peptone 0.2%; soybean cake powder 1%; yeast powder 0.3%;  $\text{KH}_2\text{PO}_4$  0.05%;  $\text{MgSO}_4$  0.03%;  $\text{CaCO}_3$  0.01%; vitamin B1 0.001%; before sterilization pH value of six should be maintained; (2) temperature;  $27^\circ\text{C} \sim 28^\circ\text{C}$ ; (3) time; about 200 hours; (4) ventilation; (30%~50%)/min. The signs of the end culture are: pH coming down about 4; remnant glucose less 1%; amino nitrogens about 20%; time about eight days. In the aforementioned conditions, the output of fermentative product achieved to 2.5~3g/L.