

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

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## **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 8 903 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 peoptne 0.2%; soybeancake power 1%; yeast power 0.3%; KH<sub>2</sub>PO<sub>4</sub> 0.05%; MgSO<sub>4</sub> 0.03%; CaCO<sub>3</sub> 0.01%; vitamin B<sub>1</sub> 0.001%; before sterilization pH Value of six should be maintained; (2) temperature; 27°C ~ 28°C; (3) time; about 200 hours; (4) ventilation; (30% ~ 50%)/min. The sign of the end culture are: pH coming down about 4; remnant glucoses less 1%; amino nitrogens about 20%; time about eight days. In the aforementioned conditions, the output of fermentative product achieve to 2.5 ~ 3g/L.