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Solid state culture and metabolites analysis of white *Antrodia cinnamomea* fruiting bodies

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The aim of this study was to establish the method and medium for culturing white *Antrodia cinnamomea* fruiting bodies. The white *Antrodia cinnamomea* was obtained from a slice of fruiting bodies, then incubating to obtain an isolated white strain. We investigated the medium compositions and controlling the environmental condition on dish culture. The results indicated that culture medium of white *Antrodia cinnamomea* fruiting bodies comprises Potato Dextrose Broth (PDB) having the concentration of 2%-4%(w/v), malt extract having the concentration of 2%-4%(w/v), amino acid having the concentration of 0.1%-0.3%(w/v), agar having the concentration of 0.5-0.6% and a composition of sucrose having the concentration of 5%-7%(w/v). The controlling of environmental condition includes: (1) low temperature inducing range from 4°C to 15°C; (2) wound inducing by using blade or needle to make 1-2cm wound; (3) light wave inducing composed of red light and blue light, and the light intensity is range from 5 μ mol/S.m² to 20 μ mol/S.m². The white fruiting bodies of *Antrodia cinnamomea* cultured by the present method contain target components the same as the ones of wood cultured *Antrodia cinnamomea* and some different components.

Biography

Yuh Shan Chung has completed his PhD from National Tsing Hua University, Hsinchu, Taiwan and He is the deputy executive director, Institute of Pharmaceutics, Development Center for Biotechnology. He has obtained more than 15 patents.

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