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Recycle Utilization of Waste Sawdust Substrate for Sawdust-Based Cultivation of *Hericium erinaceum*

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Abstract: The waste substrate from sawdust-based cultivation of *Hericium erinaceum* was reused. This process was conducted three times. Even when the waste substrate was reused three times, the yield of fruiting bodies was equal to that of fresh medium. However, the yield of the 1st waste substrate was the best of all waste substrate media, and the yields of subsequent waste substrate media decreased with recycling times. The yield of the 1st or 2nd waste substrate medium was 1.3-1.4 times that of the fresh medium. The content of low molecular α -glucan and β -glucan of the 1st or 2nd waste substrate medium increased and the C-N ratio of the 1st or 2nd waste substrate medium decreased. These results suggest that low-molecular glucan and N sources contribute to increased fruiting bodies. It was clear that the 1st and 2nd waste substrates were useful for the cultivation of *Hericium erinaceum*.

Keywords: *Hericium erinaceum*, waste substrate, recycle utilization, sawdust-based cultivation

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