

Analysis of specific character of environment-friendly material-produced rice

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The effects of mixtures of each of rice hull charcoal and wood charcoal with pyroligneous acid on the cultivation and antioxidant activities of rice were investigated. Results of the total phenolic compounds, DPPH radical electron-donating ability and xanthine oxidase stress activity analyses revealed that the environment-friendly materials increased the total antioxidant capacity in rice. In the case of palatability of rice, total amylose blue value and starch-I2color reaction analyses, data showed that environment-friendly materials generally decreased the amylose content of rice. Also, the environment-friendly materials improved the rice endosperm quality.

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