Variability of Nutrient Content of Oyster Mushroom (*Pleurotus florida*) Grown on Different Substrates

P Harikrishna, R Lakshmipathy and R Subhash Reddy
Department of Agriculture Microbiology and bio-energy, College of Agriculture, Rajendranagar, Hyderabad-500030

ABSTRACT

An experiment was conducted to study the variability in nutrient content of mushrooms when cultivated on maize and sorghum straw. The experiment was under taken with three substrates *viz.,* – paddy, maize and sorghum straw. Oyster mushrooms were cultivated with the following substrate combinations *i.e* 100% maize straw,100% sorghum straw,100% paddy straw, 50% maize straw + 50% paddy straw, 50% sorghum straw + 50% paddy straw, 50% maize straw + 50% sorghum straw with three replications. Proteins, total sugars and ash content were more in the mushrooms cultivated using 100% maize straw, amino acid content was more in the mushrooms harvested from 50% sorghum straw + 50% paddy straw, phenolic content were more in the mushrooms harvested from 100% sorghum straw and crude fibre content was more in the mushrooms harvested from 100% paddy straw. This study showed variability of nutrients in oyster mushrooms when cultivated on different substrates.

Key words : Maize straw, Nutrient contents, Oyster mushroom, Paddy straw, Sorghum straw.