

ABSTRACT

TOTAL PLATE COUNT OF STRAW MUSHROOM

(Volvariella volvacea)

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Straw mushrooms (*Volvariella volvacea*) contain a high source of protein, minerals, potassium (K) and phosphorus (P). Straw mushrooms also contain calcium, magnesium, copper, iron. The aim of this research was to determine the quality of simplicia and the value of total plate count in straw mushrooms (*Volvariella volvacea*). The method used is Total Plate Count (TPC). The dilution used is 10^{-1} to 10^{-6} . The total plate count value for the straw mushroom is 1.12×10^6 cfu/g. Most of the colonies are circular in shape and 1 colony is rhizoid in shape. Most of the colonies are white and one colony is yellow. Most colonies have an entire margin and one filiform colony. Most colonies have raised elevations and one colony is flat. Colony diameters was vary, but most are under 1 mm. Microscopically, 2 bacteria are bacilli and 2 bacteria are cocus. There are 2 colors of bacteria that are purple and the others are red. There are 2 groups of gram bacteria, including gram positive (+) and the others gram negative (-).

Keywords: Straw Mushrooms, Total Plate Count.