

ABSTRACT

TOTAL PLATE COUNT METHOD OF BLACK EAR MUSHROOM (*Auricularia nigricans*)

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Black ear mushroom (*Auricularia nigricans*) has high nutritional content. Nutrients contained within black ear mushroom (*Auricularia nigricans*) is carbohydrate, fat, protein, niacin, riboflavin, Ca, P, Na, Fe, and K. Various processed mushrooms are available at the market include raw mushroom, dried mushroom, and mushroom extract. This study aims to determine the total plate count of black ear mushroom (*Auricularia nigricans*). Bacterial total analysis was done by taking 5 g of mashed black ear mushroom simplicia, then dissolved in 45 ml of 0,90 % NaCl to get solution 10^{-1} level. Then the solution dilute again until to get solution 10^{-6} level. Then the sample solution inoculated on PCA medium for 1 ml each, and incubated at 37°C for 24 hours. The result of Total Plate Count Test from the simplicia of black ear mushroom (*Auricularia nigricans*) is $5,7 \times 10^5$ colony/gram. This is in accordance with the requirements of the total plate count.

Keywords : Black Ear Mushroom, *Auricularia nigricans*, Total Plate Count, PCA.