

ABSTRACT

STUDIES ON THE USE OF KMnO_4 TO EXTEND THE SHELF LIFE OF BANANAS MULI

by

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The purpose of this research is to investigate the influence of KMnO_4 as oxidizing ethylene and to evaluate the effective of KMnO_4 to extend the shelf life of bananas. This research was conducted using a single treatment with four levels of giving mass that is 1 g (P1), 5 g (P2), and 10 g (P3), and a control without KMnO_4 (P0), with ranges of banana's weight was 400 g.

The result of the research showing that KMnO_4 as an oxidizing ethylene by the carrier from a mixture of clay and rice husk ash in the storage of bananas has positive influence in the process of storage. The most effective treatment is P2 (5 grams) at seven days of shelf life and KMnO_4 which is placed beside the material is not effectively used because it can not completely absorb ethylene

Keywords: KMnO_4 , banana, ethylene, clay, shelf life.