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EFFECT OF SOME NATURAL COATING MATERIALS ON STORABILITY AND QUALITY OF SOME SEMI DRY DATE PALM FRUITS CVS., UNDER ROOM STORAGE CONDITIONS.

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ABSTRACT

This investigation was carried out during two successive seasons 2016 and 2017 in the postharvest laboratory of Department of Fruit Tropical Research, Horticulture Research Institute, Agriculture Research Center, Giza, Egypt, on the two date palms (semi dry fruits cvs. Sakai and Zahdi) harvested at the end rutab stage to investigate the efficiency of using some natural substances i.e. jojoba oil at 5 %, black cumin oil at 1% and jasmine oil at 1% besides untreated fruits as a control under room storage conditions on fruit quality and storability. The obtained results showed that, jojoba oil at 5 % succeeded in reducing weight loss and fruit decay percentages for Sakai and Zahdi date palm, delayed of skin separation and improved the chemical fruit properties such as total soluble solids (TSS %) and total sugar during the forty five days of storage at room conditions compared with untreated fruits (control) followed by descendingly at 1 % black cumin and 1 % jasmine oils treatments.

Key words: black cumin, date palm, fruit quality, jasmine oils, Jojoba, storage,