## Impact of storage in pet packaging on the quality of Algerian virgin olive oil

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Publication date 2016/10/1

Journal

RIVISTA ITALIANA DELLE SOSTANZE GRASSE

Volume

93

Issue

4

Pages 219-227

Publisher

INNOVHUB SSI-AREA SSOG

## Description

The storage conditions and the packaging material can affect olive oil quality. Polyethylene terephtalate (PET) plastic bottles present an economical advantage as a storage material for virgin olive oil. The objective of this study is to investigate the impact of the use of PET bottles as packaging material for the Chemlal's Algerian virgin olive under different storage conditions. We observed a gradual loss of oil quality during storage at 6, 25 and 45 degrees C after fourth months using electronic scan microscopy. PET presented structural instability, due to the effect of temperature, the constraints of storage and the characteristics of the virgin olive oil, without losing rigidity. PET packages presented significant high migration at 40 degrees C after 10 days of contact as revealed by terephtalic acid levels indicating a dynamic interaction between olive oil and PET. These results revealed that PET package is not suitable for the ...