Hesperidin Extraction form orange peels in different months and countries (Iraq, Iran, and Turkey) comparative study

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ABSTRACT:
Hesperidin is a kind of flavonoids. Hesperidin and its derivatives have an important role in medicine due to flavanone portion which have important effect on many disease like (stroke, heart attack, some oral, lung and Breast cancers cholesterol, antioxidant and anti-inflammataory ).The extraction hesperidin procedure by mixing petroleum ether with dried orange peels to remove oil substances and treated with methanol to gain hesperidin and crystallized by diluted acetic acid. The diagnosis of hesperidin by using physical (NMR,UV and IR) and chemical methods (Shinoda test).

The aim of this study was to extract the hesperidin from orange peels from different countries (Iraq, Iran and Turkey) and measure the quantity of hesperidin in different times of growth (November 2013 - March 2014).

This study shown that the amount of hesperidin decreased with high temperature and maturity.