

Identification of Lutein from Tagetes Erecta L. and It's Antioxidant Properties

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ABSTRACT:

Marigold is a rich source of Xanthophyll called Lutein, which is a member of carotenoid group. This is a yellow pigment. Lutein shows antioxidant and anticancer activities and is beneficial to eye health. This led to extraction and saponification process to obtain free lutein suitable for human applied ions. The work includes extraction of lutein which is a fatty ester with different solvents and study of TLC. Free lutein was obtained through saponification process and characterized by UV and FTIR spectrum. Antioxidant property was studied using DPPH as free radical scavenger. DPPH provides an easy and rapid ways to evaluate potential antioxidants.

Keywords: Marigold, Xanthophyll, Carotenoid, Antioxidant, DPPH.