

Antioxidant Properties of Snack Crackers Incorporated with Mahaleb (Prunus mahaleb L.) Powder

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Abstract : Nowadays, consumer demand has been increasing for the healthy and functional food. In this context, some natural products rich in phenolic compounds are also added to cereal based food for health benefits. Natural phenolic compounds have many beneficial bioactivities such as anti-allergic, antiviral, anti-inflammatory and anti-mutagenic activities. It has been found that various plant species contain natural bioactive phytochemicals with antioxidant function. One of these plant species is mahaleb (Prunus mahaleb L). Mahaleb berries with dark blue or red colours have the highest antioxidant capacities among all common fruits and vegetables. The aim of this study was to determine the possibilities of improving the antioxidant properties of novel snack crackers by supplementing with mahaleb (Prunus mahaleb L) powder. For this purpose mahaleb powder were used to replace wheat flour in the snack cracker formulation at two different levels (5%, and 7.5% w/w). As a result, mahaleb supplementation caused an increase in total phenolic contents and antioxidant activities of crackers. It can be say that mahaleb powder can be used as an alternative functional and nutritional ingredient in bakery products.

Keywords : antioxidant activity, cracker, mahaleb (Prunus mahaleb L), phenolic contents

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