

## عنوان مقاله:

The evaluation of fluoride content in available brands of tea in Zabol, Iran

## محل انتشار:

اولین همایش ملی محیط زیست طبیعی (سال: 1394)

تعداد صفحات اصل مقاله: 10

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## خلاصه مقاله:

The fluoride (F-) is considered as an element which can contribute in skeletal and teeth health but it can have detrimental effect in excess concentration. The aim of this study was to evaluate the F- content of available brands of tea in Zabol in 2014. At first, a total of 105 tea samples were collected from the super market of Zabol city. The F- concentration was measured by fluoride ion selective electrode. The results showed that Iranian Black tea (4.125 mg/l) and Kenya black tea (3.314 mg/l) have higher F- concentration. The lowest F- concentration was found in Red (0.244 mg/l) and White (0.223 mg/l) tea. In addition, the increasing of dipping time increases the F- concentration in infusions. The parameter of exposure and risk of F- including daily intake (DI), chronic daily intake (CDI) and Hazard quotient (HQ) was calculated. It was found out that DI level is higher for Black teas and the HQ value for Iranian Black tea is higher than 1. Finally, it can be concluded that the black teas, especially Iranian black tea, have a higher level of F- content and can be account more hazardous for human.

## کلمات کلیدی:

Black tea, Fluoride, Infusion, daily intake, chronic daily intake, Hazard quotient

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/490380>

