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## Food Chemistry

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### Analytical Methods

## Mineral profile of kaki fruits (*Diospyros kaki* L.)

Alba Mir-Marqués, Ana Domingo, M. Luisa Cervera  , Miguel de la Guardia

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<https://doi.org/10.1016/j.foodchem.2014.09.076>

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### Highlights

- Kaki fruit samples produced in Spain are generally adequate for essential elements.
- Low levels of potentially toxic elements were found.
- Consume of one pieces per day of kaki fruit involves appropriate mineral intake.
- Mineral profile of kaki fruit samples compared with values found in the literature.

### Abstract

The main objective of this study was the determination of the mineral profile of 167 kaki fruit (*Diospyros kaki* L.) samples produced from different regions of Spain, including samples with the protected designation of origin (PDO) 'Kaki Ribera del Xúquer' Valencia (Spain). Samples were analysed by inductively coupled plasma optical emission spectroscopy (ICP-OES) and inductively coupled plasma mass spectrometry (ICP-MS). Consumption of one piece of kaki fruit (200–400 g) would give a mineral intake providing 1–10% of the recommended daily allowance (RDA) for calcium, 1–30% for copper and potassium, 1–15% from iron and magnesium, up to 1% of sodium, and up to 4% of zinc. ANOVA analysis indicates differences between samples from different Spanish region, thus offering a way for authentication of PDO sample origin.

### Keywords

Kaki fruit; *Diospyros kaki* L.; Mineral profile; Inductively coupled plasma optical emission spectroscopy (ICP-OES); Inductively coupled plasma mass spectrometry (ICP-MS); PDO fruit

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