



Determination of heavy metals in lotus tea products

Niramol Srichana^{*}, Yuwadee Sulakalang, Bussabavadee Puttanu, Suwatchai Misuna

*Department of Science, Faculty of Science and Technology,
Loei Rajabhat University, Thailand*

*e-mail: niramon_mol@hotmail.com

Lotus can be made a various products such as foods and soft drinks. In this study, we determined the heavy metals (zinc, iron, manganese, chromium, cadmium, copper, nickel and lead) in lotus tea products from three variety lotus (*Nymphaea lotus* Linn, *Nelumbo nucifera* Gareth and *Nelumbo nucifera* Linn.). The various part of lotus for analysis were leave, flower, petiole, pollen, rhizome, inter-rhizome and lotus seed embryo. Atomic absorption spectrophotometer was used for heavy metals analysis. The results show that, the highest of cadmium content found in rhizome lotus tea products of *Nelumbo nucifera* Linn. (2.8965 mg/L) when compare the other lotus tea products. Furthermore, the iron content found in rhizome lotus tea products of *Nelumbo nucifera* Linn. (0.9027 mg/L) higher than the other lotus tea products. The results indicate that, the heavy metal content in total lotus tea products not exceed in the standard criteria.

Keywords: Tea; Lotus; Lotus tea; Heavy metals