Abstract EN

Monitoring of the environment is one of the most important activities nowadays. This monitoring includes, for example, monitoring the concentration levels of heavy metals in organisms with a defined relationship to the environment. Great tit (Parus major) was evaluated as a suitable indicator of the environment especially for its abundance and presence near human settlements. The target of this bachelor thesis is to determine cadmium and copper in dried blood samples of these birds from several parts of Europe. All samples were prepared using microwave digestion and analyzed using the inductively coupled plasma mass spectrometry, which is known for its ability to determine simultaneously metals in biological samples even at very low concentrations.

Key words

Inductively coupled plasma mass spectrometry, heavy metals, copper, cadmium, great tit, blood