## Accepted Manuscript

Title: Understanding element composition of medicinal plants used in herbalism – a case study by analytical atomic spectrometry

Authors: P. Pohl, A. Bielawska-Pohl, A. Dzimitrowicz, K. Greda, P. Jamroz, A. Lesniewicz, A. Szymczycha-Madeja, M. Welna

PII: S0731-7085(18)31091-4

DOI: https://doi.org/10.1016/j.jpba.2018.06.017

Reference: PBA 12021

To appear in: Journal of Pharmaceutical and Biomedical Analysis

Received date: 8-5-2018 Revised date: 11-6-2018 Accepted date: 11-6-2018

Please cite this article as: Pohl P, Bielawska-Pohl A, Dzimitrowicz A, Greda K, Jamroz P, Lesniewicz A, Szymczycha-Madeja A, Welna M, Understanding element composition of medicinal plants used in herbalism – a case study by analytical atomic spectrometry, *Journal of Pharmaceutical and Biomedical Analysis* (2018), https://doi.org/10.1016/j.jpba.2018.06.017

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Understanding element composition of medicinal plants used in herbalism –

a case study by analytical atomic spectrometry

P. Pohl<sup>a,\*</sup>, A. Bielawska-Pohl<sup>b</sup>, A. Dzimitrowicz<sup>a</sup>, K. Greda<sup>a</sup>, P. Jamroz<sup>a</sup>, A. Lesniewicz<sup>a</sup>, A.

Szymczycha-Madeja<sup>a</sup>, M. Welna<sup>a</sup>

<sup>a</sup> Wroclaw University of Science and Technology, Faculty of Chemistry, Division of Analytical

Chemistry and Chemical Metallurgy, Wyspianskiego 27, 50-370 Wrocław, Poland

<sup>b</sup> Hirszfeld Institute of Immunology and Experimental Therapy, Polish Academy of Science,

Laboratory of Biology of Stem and Neoplastic Cells, Weigla 12, 53-114 Wrocław, Poland

\*Corresponding author.

Email address: pawel.pohl@pwr.edu.pl (P. Pohl)

**Highlights** 

Sources of elements in medicinal plants and herbs outlined

Sample treatment for element analysis of herbal decoctions and infusions surveyed

Spectrochemical element analysis of herbal decoctions and infusions reviewed

Ways of calibration and quality assurance of results discussed

**Abstract** 

This review article is focused on element composition of medicinal plants and herbs as

well as their decoctions and infusions determined by atomic spectrometry methods.

Considering quality and safety of these herbal beverages, widely practiced in herbalism for

medicinal and supplementing purposes, element analysis is important, and quality of its results

should not raise any doubts about reliability. Hence, original researches devoted to element

1

## Download English Version:

## https://daneshyari.com/en/article/7625545

Download Persian Version:

https://daneshyari.com/article/7625545

<u>Daneshyari.com</u>