



Preparation and ion exchange protocol for separating Pb and Cu from Au-Ag matrices according to Bendall 2003

The protocol is adapted from Bendall 2003 and is applicable to samples with an Au- and/or Ag-dominated matrix. It provides step-by-step instructions for the full procedure from weighing in the sample to the preparation of a pure Pb solution ready for mass spectrometry.

Abbreviations:

- MQ water: Ultrapure water („Milli-Q“ water)
- *** = triple-distilled

References

Bendall C (2003) The Application of Trace Element and Isotopic Analyses to the Study of Celtic Gold Coins and their Metal Sources. PhD thesis, Goethe-Universität Frankfurt.



[illegible]

Weighing and digestion

[illegible]

Precipitate and remove Ag as AgCl

[illegible]

Cleaning the columns, load resin + clean

[illegible]

1st chromatographic column separation with DOWEX 1x8: Removing Au

[illegible]

2nd chromatographic column separation with DOWEX 1x8: Removing Cu

[illegible]