Accepted Manuscript

Title: A simple and rapid method for preparing a diversity of powdered materials for analysis by laser ablation inductively coupled plasma mass spectrometry

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PII: S1387-3806(17)30129-X
DOI: http://dx.doi.org/doi:10.1016/j.ijms.2017.05.013
Reference: MASPEC 15804

To appear in: *International Journal of Mass Spectrometry*

Received date: 22-3-2017
Revised date: 18-5-2017
Accepted date: 22-5-2017

Please cite this article as: M.E.Shaheen, J.E.Gagnon, B.J.Fryer, A.Polat, A simple and rapid method for preparing a diversity of powdered materials for analysis by laser ablation inductively coupled plasma mass spectrometry, International Journal of Mass Spectrometryhttp://dx.doi.org/10.1016/j.ijms.2017.05.013

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ACCEPTED MANUSCRIPT

A simple and rapid method for preparing a diversity of powdered materials for analysis by laser ablation inductively coupled plasma mass spectrometry

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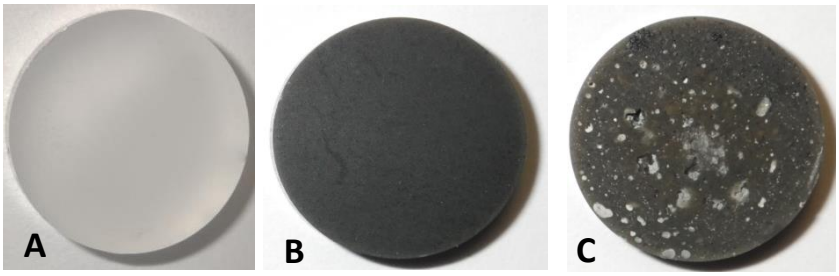
Graphical Abstract



Disks prepared from resin/hardener: A) blank (no sample), B) with BCR-2 powder under vacuum, and C) with BCR-2 powder in air. Bubbles are formed when resin impregnation takes place in air due to the evolution of interstitial air between powder grains.

Highlights

- A simple and rapid method for preparing powdered materials and calibration standards in a form of rigid disks suitable for microanalysis using LA-ICP-MS is reported.
- Sample preparation under vacuum improves disk quality and avoids the confinement of air bubbles in the prepared disks.

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