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FLEXIBLE SAMPLE PREPARATION WITH THE μ GRAPHILINE SYSTEM

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The μ GRAPHILINE, introduced in 2024, offers a new, fully automatic graphitization process, enabling rapid, reliable, and precise graphitization using the zinc reduction method for radiocarbon dating. While the majority of radiocarbon samples include bone, wood, charcoal, plant remains, carbonates, and sediments (Dee et al. 2020), there are niche areas of other samples that can be dated with this method.

In this work, we present results of atypical samples, such as leather, liquid components of everyday organic products, and much more, which were combusted and graphitized with the μ GRAPHILINE system and measured using the MICADAS spectrometer for AMS measurements (Synal et al. 2007; Wacker et al. 2010).

Student Submission

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