

Analysis of organic residues preserved in archaeological ceramics from Jordan

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Abstract

This work traces sources of organic residues in archaeological ceramic vessels from Jordan in order to answer questions about ancient cultures. Six Iron Age lamps were subjected to organic analysis using gas chromatography – mass spectrometry (GC-MS) technique. The preliminary results wave for plant material as a source. Stable carbon isotopic investigations should be conducted to identify sources of residues. This paper however, shed light on the importance of this analysis for better understanding past societies. Unfortunately, researchers struggle and hesitate to conduct the analysis as a result of the absence of specialized centers for such archaeological investigations in Jordan.

Keywords: Lipids, Gas chromatography – mass spectrometry, Archaeology, Lamps