
SOLVENT-MINIMIZED SAMPLE PREPARATION APPROACHES FOR POTENTIAL FIELD APPLICATIONS

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While most of the many approaches to solvent- and material-based microextraction being developed in-house (i.e. non-commercially available) in many laboratories are sufficiently straightforward to replicate and therefore highly accessible to the larger community, at some stage some attention needs to be paid to their automation, to encourage industrial and commercial adoption. Over the past several years, our laboratory has developed microscale sample preparation techniques that we think lend themselves not only potential automation or at least semi-automation, but also to field applications. In this talk, we shall be describing some of these procedures for environmental analytical and bioanalytical applications that have the potential of being applied to field sample preparation.