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**Application of mixed micelle-mediated extraction for selective separation and determination of Ti(IV) in geological and water samples**

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**ABSTRACT**

A simple cloud point extraction (CPE) methodology based on the complexation of Ti(IV) with Alizarin Red S (ARS) and cetyltrimethylammonium bromide (CTAB) at pH 3 followed by extraction with Triton X-114 in presence of Na<sub>2</sub>SO<sub>4</sub> at room temperature (25 °C) has been developed. The enriched analyte in the surfactant rich phase was determined by visible spectrophotometry or inductively coupled plasma optical emission spectrometry (ICP-OES). The main factors affecting mixed micelle-mediated extraction efficiency were studied. At optimum conditions,

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