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Abstract

An innovative dual dispersive ionic liquid based on ultrasound assisted microextraction (UDIL- μ E), for the enrichment of trace levels of copper ion (Cu^{2+}), in serum (blood) of patients suffering from different neurological disorders. The enriched metal ions were subjected to flame atomic absorption spectrometry (FAAS). In the UDIL- μ E method, the extraction solvent, ionic liquid, 1-butyl-3-methylimidazolium hexafluorophosphate [C_4mim][PF_6], was dispersed into the aqueous samples using an ultrasonic bath. The (PAN) 1-(2-pyridylazo)-2-naphthol was used as

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