Traces of In^{3+} direct quantification by Anodic Stripping Differential Alternative Pulses Voltammetry in excess of Cd^{2+} and Pb^{2+}

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The Differential Alternative Pulse Voltammetry (DAPV) was modified appropriately allowing its application in anodic stripping mode (ASDAPV). The modified technique parameters were optimized in terms of sensitivity and it was applied for direct species quantifications in industrial waste waters without sample pretreatment. Trace of In^{3+} was quantified *on-line* in presence of Cd^{2+} excess in industrial waste waters purified by *Streptomyces griseus* biomass loaded column. Reliable results for the In^{3+} concentration were obtained by the ASDAPV up to 11 fold excess of Cd^{2+} while peak overlapping occurs even at inferior Cd^{2+} concentration by the application in anodic stripping mode of the most commonly applied voltammetric technique, the DPV.

Keywords: Differential Alternative Pulse Voltammetry (DAPV), In^{3+} traces quantification, Stripping analysis

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