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Determination of Cocaine Using Tetrathiocyanato Cobalt (II) ate

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Poster Presentation 22

DETERMINATION OF COCAINE USING
TETRATHIOCYANATO COBALT (II) ATE

Kevin Hansen, and David Bailey*, Department of Chemistry, IWU

A method for the indirect determination of cocaine is reported. The method involves the formation of an ion pair of $\text{Co}(\text{SCN})_4^{2-}$ and the main metabolite of cocaine, benzoylecgonine. The optimum pH (3.5) of the ion complex concentration and the detection limit were determined by use of Ultraviolet-Visible Spectrophotometry. The detection of the ion is also found using HPLC.