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# Separation of Toxic Metal Cations on Stannous Silicate layers in MicellarTLC

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**Abstract:**Micellar thin layer chromatographic separation of some toxic metal ions were carried out on a thin layer of stannous silicate using silica gel-G as a binder. Various environmental, industrial and sludge samples were gives good separation in zwitter-ionic surfactant cocamidopropylbetaine (CAPB) containing mobile phase. The nature and the concentration of surfactant also affect the retention factor of toxic metal ions. Effect of some organic additives on separation also studied in current methodology. From several solvent systems acetone in CAPB system was found to be good for separation of metal ions from multicomponent systems. Semi quantitative measurements were also carried out for some metal cation.

**Keywords :**Zwitter-ionic, Micellar, CAPB, Toxic, Metal.

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