

Research Title : Detection of Pharmaceutical Products using
Fluorescamine

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Abstract

The drugs which contains amino functional groups, such as $-NH_2$, $-NH$ and $-N-$ can be differentiated by using fluorescamine solution as spraying reagent on silica gel GF-254 thin layer chromatographic plate. Only primary amine drugs, aliphatic or aromatic amine, give a fluorescence, while secondary and tertiary even though quarternary amine drugs give a quenching and nothing with fluorescamine spraying reagent respectively. With these categories, the drugs can be divide into three groups. First, the drug fluorescence with fluorescamine, second, the drugs which give quenching with fluorescamine and third, the drug which have no quenching or non-fluorescence with fluorescamine. Including, such as Rf value of three solvent systems and iodine vapour, about 60 pharmaceutical products can be detected or identified.