

Amphetamine/methamphetamine determination with Roche immunoassay test kit

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"Ya Ba" is amphetamine and methamphetamine. Amphetamine was found in street markets for decades before methamphetamine. Thus, most of test kits available for long time as Roche immunoassay test kit are more specific to amphetamine. Although it has similar structure to amphetamine, methamphetamine cannot be detected by Roche immunoassay kit. In this study, specimens containing both methamphetamine and its active metabolite, amphetamine, gave higher concentrations than concentrations of amphetamine

in those specimens. The observed concentration; however, were not equal to sum of amphetamine and methamphetamine concentrations. The observed concentrations relied on the concentrations of amphetamine rather than that of methamphetamine. When methamphetamine standards were used to create a calibration curve, the reagent kit was more sensitive to methamphetamine but less specific to amphetamine causing higher rate of false positive.