高效液相色谱法分离和检测尿中三种有机磷农药

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摘 要：本文采用高效液相色谱法,对尿中三种有机磷农药进行了分离和检测,在所建立的方法下,三种农药在线性范围5～25μg/ml之间,尿中水胺硫磷最低检测限为100ng,回收率为73.65±2.70%,日内误差为2.7%,日间误差为13.22%;尿中甲基毒虫畏最低检测限为50ng,回收率为72.31±10.15%,日内误差为10.15%,日间误差为22.19%;尿中伏杀硫磷最低检测限为50ng,回收率为61.55±5.11%,日内误差为5.11%,日间误差为4.58%。

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Separation and Detection of Three Organophosphorus Pesticides in Urine by High Performance Liquid Chromatography

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Abstract: A reversed phase HPLC method was developed for the simultanous determination of three organophosphorus pesticides in urine. Chromatographic separation was achieved with ODS column(150 × 2mm, ID) and effluent was monitored at 215±4, 254 ± 4, 280±4nm. The assay was linear over the urine range of 5. 0~50μg/ml. Inter and intro day precision (RSD) for three organophosphorus pesticides did not exceed 22. 19% in these range.The urine sample was extracted with PT-C18 cartridge and cluted with methanol before

Key words:

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