

Measurement of FLUCOSPIA by Finite Element Method

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Technology description

This article

Cocaine, a substance that acts by stimulating the central nervous system, causes physical and psychological dependence. Yes, because one of the major current global health problems, because of the increased incidence of diseases such as AIDS and hepatitis C, also contributes to the increase in crime, as drug users are more vulnerable to such behaviour, as several current studies have pointed out. In that context, it was noted that research and discoveries relating to the detection of new forms of drug abuse mentioned above, as well as those aimed at the treatment of withdrawal syndrome and the reduction of drug trafficking, were of paramount importance.

Colorimetric or spot tests are preliminary analyses of cocaine. The most famous of these is the Scott test. The present invention is applied to the field of sample analysis of forensic interest instead of the currently commonly used tests, and provides a fluorescence suppression path analysis method for cocaine detection involving nanocrystalline semiconductors known as quantum dots.

Application area

Forensic Laboratory for Sample Analysis.

Advantages

It can be used for cocaine detection.

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