



# University of Central Florida

Technology Available for Licensing

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## Rapid Drug Identification Kit

For drug analysts, it is difficult to identify certain types of drugs. Additionally, the frequency of new drugs introduced is at an alarming rate and this enhances the problem faced by the drug analysts.

To help the drug analysts in the field, there are many reagent kits available to identify certain drugs based on the color they generate when reacted with the reagents. However, the results of these kits depend on the perception of the officers in the field, which leads to high rates of false negatives and positives. For example, PCP and cocaine cannot be distinguished from each other using the color method. Confirmatory tests exist, but they must be conducted in a lab, are more expensive and require special training.

### Invention

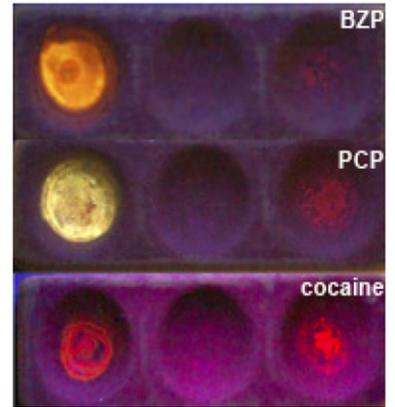
The invention provides a simple, low cost, easy to use drug identification kit. A sample of a suspected drug can be placed on a test paper coated with CuI crystals and then run through the portable spectrometer, such as one attached to a smart phone camera, which generates a unique optical spectrum of each drug. The drug is not affected in anyway allowing it to be used later for further analysis if necessary.

### Looking for Partners

Looking for partners to validate testing, get product approved for use, and commercialize into the market.

### UCF Inventor

Richard Blair, Ph.D.



### Benefits

- Accurate Results
- Easy-to-use
- Portable
- Low Cost

### Applications

- Drug Identification
- Petroleum Well Analysis
- Identification of explosives

### Tech Fields

Drugs, Sensors

### Keywords

drug analysis, portable spectrometer, drug identification, narcotics

**If you or your company are interested in this opportunity, Contact:**

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