



B120 Studies on Methamphetamine Detection With Drugwipe® Analytical Device, Part 2

Elzbieta J. Kubicz, PhD*, and Lance Allen, MSFS, Wyoming State Crime Laboratory, State Crime Laboratory, 316 West 22nd Street, Cheyenne, WY 82002

After attending this presentation, attendees will understand the use of Drugwipe® to detect methamphetamine on the surface and confirm its identification using GC/MS analysis.

This presentation will impact the forensic community by demonstrating how Drugwipe® is a simple, non-expensive drug test.

Since the 1990s, methamphetamine has been considered the primary drug threat in Wyoming and has been a priority for state and local law enforcement agencies. Methamphetamine is a powerful stimulant which affects the central nervous system and causes behaviors such as anxiety, insomnia, paranoia, hallucinations, mood swings, and delusions. Both meth producers and abusers have been involved in violent crimes in Wyoming to obtain money to support their meth habits. A startling number of these crimes include domestic violence ranging from child neglect to homicide. Of the six neglect and abuser related deaths of children investigated by the Wyoming Child Fatality Review Board in 2003, five were associated with meth use by parents or caregivers.

This statistics alone indicates the need for a device for speedy on- site detection and identification of the presence of Methamphetamine.

Drugwipe® from Securetec meets these requirements. The main advantages of Drugwipe® are its small size, fast response time and low rate of false positives.

During the AAFS Annual Meeting in San Antonio in 2007 the preliminary studies on Methamphetamine detection using this device were presented, and discussions on sensitivity, selectivity and surface factor led to encouraging conclusions. More important, for court purposes, there is a possibility to extract the presumptively detected drug and confirm identification using GC/MS analysis.

The presentation will focus on the detection of traces of the drug on surfaces and the follow up quantitative analysis of methamphetamine extracted from Drugwipe®.

Drug loss during collection and storage of samples, as well as analysis of the samples collected in a field environment rather than laboratory will be addressed.

Drugwipe, Methamphetamine, GC/MS