

Top Ten Accomplishments of One Source Toxicology for 2007

One Source Toxicology Laboratory took on several challenges in 2007 and successfully accomplished all goals set for that year. As the employees look to 2008 as an even more promising year, the employees of One Source Toxicology would like to recap the success of 2007.

1. One Source Toxicology (OST) completed regulatory inspections from the Substance Abuse and Mental Health Services Administration (SAMHSA) and College of American Pathologist Forensic Urine Drug Testing (CAP-FUDT), in accordance with, successfully completing the inspection to continue accreditations from SAMHSA and CAP-FUDT. In addition, renewed certifications from Clinical Laboratory Improvement Amendments, The Oklahoma State Health Department, Texas Department of Public Safety, and Drug Enforcement Administration.
2. One Source Toxicology successfully completed the Proficiency Testing cycles from both SAMHSA and CAPS without any deficiencies.
3. One Source Toxicology has developed methods for testing Ethyl glucuronide (ETG) in urine samples using Olympus 5400 and LC/MS/MS. The laboratory initiated testing of ETG in urine samples for its clients in September 2007.
4. One Source Toxicology developed methods for oral fluid testing of SAMHSA-5 drugs using Olympus 5400, ELISA, GC/MS Oral Fluid Analyzer and LC/MS/MS. The laboratory initiated testing for SAMHSA drugs in oral fluids to its clients during the month of October 2007.
5. One Source Toxicology completed testing of more than 2,000 samples for anabolic steroids during 2007. The testing of those specimens for anabolic steroids were performed for several high schools in Texas.
6. Employees attended several forensic toxicology meetings including the Society of Forensic Toxicologist (SOFT) Annual Meeting, the American Academy for Forensic Scientists (AAFS) Annual Meeting, Jointing Meeting of the International Association of Forensic Toxicologists (TIAFT), and the International Council on Alcohol, Drugs and Traffic Safety (ICADTS) meeting, Southwest Association of Toxicologists (SAT). Also, the One Source scientific representatives presented papers on Anabolic Steroids, 6-Acetylmorphine (6-AM) measurement using GC/MS oral fluid Analyzer, and Ethyl glucuronide (ETG) analysis by LC/MS/MS. Those representatives in attendance included President Stan Gerlich, Scientific Director Subbarao V. Kala, PhD., Responsible Person Steve Harris, and Alternate Responsible Person Tom Freijo.
7. Scientific Director Subbarao V. Kala, PhD., presently the Director for the CAP program, became the Alternate Responsible Person for the SAMHSA drug testing program.
8. Key Personnel of the laboratory became members of Society of Forensic Toxicologists, The American Chemical Society and Society of Toxicology.
9. Laboratory employees, Tom Freijo and Ashley Wolfe, completed their Master's program in Toxicology utilizing the continuing education program offered by One Source Toxicology. The laboratory continues to support its employees by sponsoring the continuing education by awarding tuition reimbursements.
10. The laboratory significantly improved its Laboratory Safety and Chemical Hygiene Programs and Continuing Education Program during 2007 as a requirement of the College of American Pathologists Certification.

ORAL FLUID DRUG SCREENING

Benefits

- The specimen collection is non-invasive, does not require a special collection facility, or require scheduling an appointment
- The specimen may be collected easily at anytime
- Donor may collect their own specimen under the supervision of a monitor
- Multiple specimens can be collected at the same time
- One collector (monitor) may collect both sexes
- Process takes less than 10 minutes and reduces lost work time
- Less embarrassing
- Observed collection eliminates adulteration & substitution
- Positive test indicate recent substance abuse. Less than 24 hours.
- Results from laboratory based testing in oral fluid are scientifically validated

Drugs and cutoffs

Amphetamine	50 ng/ml	50 ng/ml
Cocaine	20 ng/ml	20 ng/ml
Methadone	50 ng/ml	50 ng/ml *
Opiates	40 ng/ml	40 ng/ml
Phencyclidine	10 ng ml	10 ng/ml
Marijuana	4 ng/ml	2 ng/ml

Presently One Source Toxicology Laboratory is participating in the SAMHSA Oral Fluid proficiency testing program.