

# Dedicated to Improving the Safety of Your Workplace

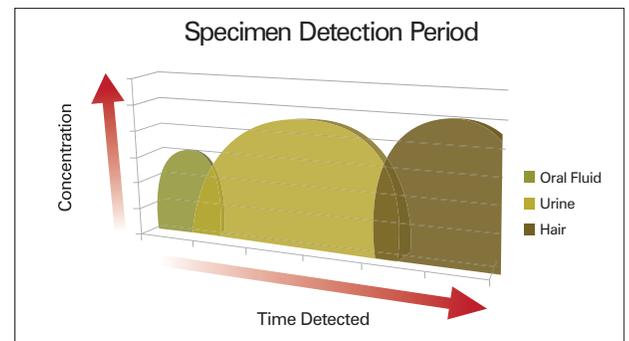
PAML, one of the nation's leading toxicology labs, offers a broad spectrum of testing methodologies for both workplace and forensic testing, including:

Urine	Most common screening; reliable and the gold standard in drug testing
Hair	Longer detection period, but not appropriate for post accident
Oral Fluid	Easy to collect, but very short detection period

PAML has implemented only the highest quality of testing and reporting methodologies available to the industry. We are certified by SAMHSA/HHS and the College of American Pathology Forensic Drug Testing (CAP FDT).

PAML will identify and evaluate your requirements and develop a plan designed around your business needs.

With our expertise, we are able to supply your business with all the materials you need for testing, from supplies, resulting options and expert testimony.



## DRUG PANELS

Panel	Description
<b>DOT 5 Panel Test for Department of Transportation (HHS/SAMHSA)</b>	This panel meets the requirements for the Human and Health Services (HHS) and Substance Abuse and Mental Health Services Administration (SAMHSA) test as well as the Department of Transportation (DOT). <b>(See list on reverse)</b>
<b>Drug-Free Workplace Screen</b>	This panel includes the same drugs specified for screening as used in the Federal Government. <b>(See list on reverse)</b>
<b>Employee Drug Screen</b>	This panel is designed for employers concerned about a broader spectrum of drugs in the workplace. <b>(See list on reverse)</b>
<b>Medical Professional</b>	These panels are designed for employers in the medical field and are concerned about drugs found in a medical setting. <b>(See Medical Professional brochure)</b>
<b>Legal Blood Alcohol Testing</b>	A quantitative analysis for ethyl alcohol on a blood sample.
<b>Oral Fluid Testing</b>	This panel is designed for easy collection. <b>It includes:</b> Amphetamines, Opiates, Cannabinoids (THC metabolite), Phencyclidine (PCP), Cocaine metabolite. <b>(See Oral Fluid brochure)</b>
<b>Hair Testing</b>	This panel is designed for an extended detection period of time for drugs tested. <b>(See Hair Testing brochure)</b>
<b>Instant On-Site Tests Point of Care Testing (POCT)</b>	This panel is designed to test at the time of collection for a quick negative result and indicates the need for further testing on positive results. <b>(See POCT brochure)</b>
<b>Independent GC / MS Confirmations</b>	PAML can provide GC/MS confirmation of positive results obtained through other facilities, POCT devices or other cause.

All positive drug panel results are confirmed by gas chromatography/mass spectrometry (GC/MS) before release. Drug screens are also available with ethyl alcohol and cotinine (nicotine metabolite). In addition, customized drug screens can be designed according to an employer's specifications.

To ensure legal support of results, all forensic panels require proper legal documentation and collection protocol.

We will provide you with the appropriate collection kit and forms.



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## Workplace Drug Tests and Common Cutoff levels (ng/mL) - Urine

Drug Class	Initial Analysis	GC/MS Confirm
Amphetamines	500	250
Methamphetamine	500	250
MDA,MDMA, MDEA	500	250
Barbiturates	200	200
Benzodiazepines	200	200/50
Cannabinoids (THC)	100/50/20	15/10
Cocaine metabolite (BZE)	300/150	150/100
Methodone	300	150
Methaqualone	300	300
Opiates : Codeine/ Morphine	2000/300	2000/300
Semi-synthetic Opiates	300	300
6-acetyl Morphine	10	10
Phencyclidine (PCP)	25	25
Propoxyphene	300	150
*Delta-9-tetrahydrocannabinol-9-carboxylic acid (THCA)		
Blood Alcohol	.01	

## Additional Drug Tests (ng/mL)

Drug Class	Initial Analysis	GC/MS Confirmation
ETG/Ethyl glucuronide/ Sulfate	250	100/25
Fentanyl, Norfentanyl	2	2
Flunitrazepam	25	25
GHB, Gamma hydroxybutyrate	50	50
Ketamine	25	25
Nicotine, Cotinine	300	50
Tramadol	200	200

## DOT Drug Test Regulated Cutoff Levels (ng/mL)

Drug Class	Initial Analysis	GC/MS Confirmation
Amphetamines/ Methamphetamines	500	250
MDA,MDMA,MDEA	500	250
Cannabinoids (THC)	50	15
Cocaine metabolite (BZE)	150	100
Codeine/Morphine	2000	2000
6-acetyl Morphine	10	10
Phencyclidine (PCP)	25	25

## CUTOFF LEVEL

A cutoff level is an established concentration based on whether a drug is reported as positive or negative.

- For a positive drug result, a donor has to actually consume the substance.
- Screening and confirmation cutoff levels are different as two different testing methods are employed—for many drugs, all forms of the drug are looked for with the screening procedure, but confirmation tests look for one specific form of the drug (metabolite).

For example, THC is initially screened at 50 ng/ml and if positive, will be sent to a second test for confirmation.

The confirmation cutoff level determines the result.

## ADULTERANTS AND INTEGRITY TESTING

PAML employs the latest countermeasures to assure the accuracy of the testing performed. The two methods most used by donors attempting to adulterate their urine sample:

- consuming a substance or
- adding a substance to a urine sample after voiding.

The first way is always in conjunction with consuming ongoing unnaturally large quantities of fluid, yielding a diluted sample.

Accordingly, our laboratory report states that the sample has been diluted.

In the case of a donor adding a substance to a urine sample, the integrity of the sample is challenged.

In these cases, the laboratory report:

- (1) states that the sample is unsuitable for analysis, or
- (2) reports the pH, creatinine/specific gravity, or physical characteristics are abnormal, or
- (3) sample not consistent with human urine.