

## Current Cutoff Levels for Toxicology Tests

Immunoassay Initial Test (FORENSIC CUTOFFS)					
Drug Class	Immunoassay Initial Screen Cutoff	Analyte the Immunoassay is Most Reactive To			
Cannabinoids	50 ng/mL	11-nor-Delta-9-THC-9- COOH			
Cocaine	150 ng/mL	BZE			
Amphetamine/ Methamphetamine	500 ng/mL	+(d) Methamphetamine.			
Ecstasy	500 ng/mL	MDMA			
Opiates (2000 Cutoff)	2000 ng/mL	Morphine			
Opiates (300 Cutoff)	300 ng/mL	Morphine			
Phencyclidine	25 ng/mL	Phencyclidine			
Barbiturates	200 ng/mL	Secobarbital			
Benzodiazepines	200 ng/mL	Lormetazepam			
Buprenorphine	5 ng/mL	Buprenorphine			
Methadone	300 ng/mL	Methadone			
Ethanol	0.010 g/100 mL	Ethanol			
Oxycodone	100 ng/mL Oxycodone				
Oxidants	200 ug/mL Nitrite				
Cotinine	250 ng/mL	Cotinine			

Critical Value Testing*						
Test	Cutoff	Analyte(s) Tested For	Critical/Action Level			
Ethylene Glycol	10 mg/dL	Ethylene Glycol	20 mg/dL			
Volatiles	0.010 g/100 mL	Ethanol, Methanol, Acetone, Isopropanol	Methanol: 0.020 g/100 mL Isopropanol: 0.400 g/100 mL			

Forensic Workplace Confirmation Testing Cutoffs (GC-MS, GC, LCMSMS, or LCMS QToF Methods)					
Drug Class	Cutoff	Analyte(s) Confirmed			
Cannabinoids	15 ng/mL	Delta-9-THC-COOH			
Cocaine	100 ng/mL	BZE (Benzoylecgonine)			
Amphetamines	250 ng/mL	Amphetamine, Methamphetamine, MDA, MDMA (Ecstasy)			
Opiates (2000 Cutoff)	2000 ng/mL	Codeine and Morphine			
Opiates (300 Cutoff)	300 ng/mL	Codeine, Morphine, Hydrocodone, and Hydromorphone			
Phencyclidine	25 ng/mL	Phencyclidine			
Barbiturates	300 ng/mL	Butalbital, Amobarbital, Pentobarbital, Secobarbital, and Phenobarbital			
Benzodiazepines	See analyte list	<ul> <li>300 ng/mL Cutoff: Lorazepam, Desalkylflurazepam, Nordiazepam, 7- Aminoflunitrazepam, Oxazepam, Temazepam, 7- Aminoclonazepam, Diazepam</li> <li>100 ng/mL Cutoff: Alphahydroxytriazolam, Alphahydroxyalprazolam, Alphahydroxymidazolam</li> </ul>			
Buprenorphine	10 ng/mL	Buprenorphine, Norbuprenorphine			
Methadone	300 ng/mL	EDDP (Methadone metabolite) and Methadone			
Propoxyphene	300 ng/mL	Norpropoxyphene (Propoxyphene metabolite)			
Ethanol	0.010 g/100 mL	Ethanol			
Oxycodone	100 ng/mL	Oxycodone and Oxymorphone			
Oxidants	200 ug/mL	None – just confirms that the sample had oxidizing adulterants added that may have affected the test outcome			
Fentanyl	20 ng/mL	Fentanyl			
Ketamine	100 ng/mL	Ketamine			
6-MAM	10 ng/mL	6-Monoacetylmorphone (Heroin Metabolite)			
Meperidine	100 ng/mL	Meperidine			
Tramadol	100 ng/mL	Tramadol			
Cotinine	200 ng/mL	Cotinine and Nicotine			

## Clinical/Medical/Pain Clinic Confirmation Cutoff Levels (GC-MS, GC, LCMSMS, or LCMS QToF Methods)\*

Drug Class	Cutoff	Analyte(s) Confirmed
Cannabinoids	3 ng/mL	Delta-9-THC-COOH
Cocaine	20 ng/mL	BZE
Amines	100 ng/mL	Amphetamine, Methamphetamine, Ephedrine, Pseudoephedrine, Phenylpropanolamine, MDA, and MDMA (Ecstasy)
Opiates (300)	50 ng/mL	Codeine, Morphine, Hydrocodone, and Hydromorphone
Phencyclidine	4 ng/mL	Phencyclidine
Barbiturates	Listed in () next to analyte. Unit = ng/mL	Butalbital(30), Amobarbital(30), Pentobarbital(60), Secobarbital(60), and Phenobarbital(60)
Benzodiazepines	25 ng/mL	Desalkylflurazepam, Nordiazepam, 7-Aminoflunitrazepam, Oxazepam, Temazepam, Diazepam, 7-Aminoclonazepam, Lorazepam, Alphahydroxytriazolam, Alphahydroxyalprazolam, Alphahydroxymidazolam
Methadone	Listed in () next to analyte. Unit = ng/mL	EDDP (30), Methadone (60)
Ethanol	0.010 g/100 mL	Ethanol
Oxycodone	30 ng/mL	Oxycodone and Oxymorphone
Oxidants	200 ug/mL	None – just confirms that the sample had oxidizing adulterants added that may have affected the test outcome
Ketamine	30 ng/mL	Ketamine
Fentanyl	4 ng/mL	Fentanyl
6-MAM	2 ng/mL	6-Monoacetylmorphone (Heroin Metabolite)
Meperidine	10 ng/mL	Meperidine
Tramadol	10 ng/mL	Tramadol
Nicotine/Cotinine – Serum and Urine	2 ng/mL	Cotinine, Nicotine
Buprenorphine	Listed in () next to analyte. Unit = ng/mL	Buprenorphine(2), Norbuprenorphine(5)
Methylphenidate	Listed in () next to analyte. Unit = ng/mL	Methylphenidate(10), Ritalinic Acid(25)

\*NOTE: These tests use the laboratory's current experimentally determined Limit of Quantitation (LOQ) as the cutoff. These LOQ values change occasionally. Call the lab if there are questions.