



Current Cutoff Levels for Toxicology Tests (NOT RAPID TESTS)

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

*Note: The laboratory assesses the immunoassay result against a certified negative sample result to determine the presumptive positive or negative status for the drug class(es) tested.

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

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

*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.

Critical Value Testing

Test	
Ethylene Glycol	This testing is now performed at Mayo.
Volatiles	This testing is now performed at Mayo.

Targeted Drug Panel Cutoff Levels by Analyte (LCMSMS Method)	
Analyte Confirmed	Cutoff
Amphetamine	75
Methamphetamine	50
MDA	75
MDMA	50
MDEA	75
Methylphenidate	75
Ritalinic Acid	75
7-Aminoclonazepam	50
Lorazepam	25
Oxazepam	50
Alphahydroxyalprazolam	25
Nordiazepam	25
Temazepam	25
Oxymorphone	50
Morphine	50
Hydromorphone	25
Gabapentin	1,000
Codeine	25
NorTramadol	20
6-MAM	4
Oxycodone	50
NorOxycodone	50
Hydrocodone	25
Tramadol	20
NorBuprenorphine	6
Buprenorphine	8
NorFentanyl	10
Fentanyl	6
Carfentanil	6
EDDP	50
Methadone	50