



## Current Cutoff Levels for Toxicology Tests (NOT RAPID TESTS)

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<b>Immunoassay (Initial/Screen Test)</b>		
<b>Drug Class</b>	<b>Analyte the Immunoassay is Most Reactive To</b>	<b>Cutoff Level (ng/mL)*</b>
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

<b>Clinical/Medical/Pain Clinic Confirmation Cutoff Levels (GC-MS, LCMSMS, or LC QToF Methods)*</b>		
<b>Drug Class</b>	<b>Cutoff</b>	<b>Analyte(s) Confirmed</b>
Amines	50 ng/mL	Amphetamine, Methamphetamine, Ephedrine, Pseudoephedrine, Phentermine, MDA, MDEA and MDMA (Ecstasy)
Barbiturates	60 ng/mL	Butalbital, Amobarbital, Pentobarbital, Secobarbital, and Phenobarbital
Benzodiazepines	25 ng/mL	Desalkylflurazepam, Nordiazepam, 7-Aminoflunitrazepam, Oxazepam, Temazepam, Diazepam, 7-Aminoclonazepam, Lorazepam, Alphahydroxyalprazolam
Buprenorphine	5 ng/mL	Buprenorphine, Norbuprenorphine
Cannabinoids	4 ng/mL	Delta-9-THC-COOH, Cannabidiol (CBD)
Cocaine	8 ng/mL	BZE
Alcohol / Ethanol Biomarkers	Listed in ( ) next to analyte. Unit = ng/mL	Ethyl glucuronide (250), Ethyl Sulfate (100)
Fentanyl	5 ng/mL	Fentanyl
Methadone	50 ng/mL	EDDP, Methadone
Methylphenidate	50 ng/mL	Methylphenidate, Ritalinic Acid
Opiates	50 ng/mL	Codeine, Morphine, Hydrocodone, and Hydromorphone
6-MAM	4 ng/mL	6-Monoacetylmorphine (Heroin Metabolite)
Oxycodone	50 ng/mL	Oxycodone and Oxymorphone
Tramadol	25 ng/mL	Tramadol
Nicotine/Cotinine – Urine	10 ng/mL	Nicotine, Cotinine
Oxidants	200 ug/mL	None – just confirms that the sample may have 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.

<b>Critical Value Testing</b>	
<b>Test</b>	
Ethylene Glycol	This testing is performed at Mayo.
Volatiles	This testing is performed at Mayo.

<b>Targeted Drug Panel (Test Code TDP): Cutoff Levels by Analyte (LCMSMS Method)</b>	
<b>Analyte Confirmed</b>	<b>Cutoff</b>
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
EDDP	50
Methadone	50