

## Interpretation of Urine Drug Screens

Medication/substance (common brand names)	Common Expected metabolites ( <i>not all metabolites must be present</i> )	How to order at MGMC?
Oxycodone (Percocet)	Oxycodone, oxymorphone	Opiate ur qn
Hydrocodone (Vicodin, Lortab, Lorcet)	Hydrocodone, hydromorphone	Opiate ur qn
Codeine (Tylenol #3)	Codeine, morphine	Opiate ur qn
Hydromorphone (Dilaudid)	Hydromorphone	Opiate ur qn
Morphine (Avinza, Kadian, MS Contin)	Morphine, possibly hydromorphone	Opiate ur qn
Methadone	Methadone, EDDP (2-ethylidene-1,5-dimethyl-2, 2-diphenylpyrrolidine)	Methadone ur qn
Oxymorphone (Opana)	Oxymorphone	Opiate ur qn
Buprenorphine (Suboxone, Subutex)	Buprenorphine, norbuprenorphine (typically norbuprenorphine > buprenorphine)	Buprenorphine ur qn
Fentanyl	Fentanyl, norfentanyl	Fentanyl, urine forensic
Tramadol (Ultram, Ultracet)	Tramadol	Tramadol UR random
Heroin (“dope,” “smack,” “mud,” “horse”)	Morphine. 6-mono-acetyl-morphine (6-MAM) has short half-life (present in urine about 8 hours) but is definitive for heroin.	Opiate ur qn Lab miscellaneous: 6-MAM confirmation
Cocaine (“crack” or white powder)	Cocaine, benzoylecgonine	Cocaine ur qn
Bath salts (“Monkey dust,” “MCAT”)	Mephedrone, methylenedioxypropylone Alpha PVP	Lab miscellaneous: bath salts confirmation
Lisdexamfetamine (Vyvanse)	Amphetamines	Amphetamine qn ur
Dextroamphetamine and amphetamine (Adderall)	Amphetamines	Amphetamine qn ur
Methamphetamine (“crystal meth”)	Methamphetamine, possibly amphetamines	Amphetamine qn ur
Methylenedioxymethamphetamine (“ecstasy”)	MDMA	Amphetamine qn ur
Methylphenidate (Ritalin, Concerta)	Methylphenidate, ritalinic acid	Methylphenidate (ritalin)
Clonazepam (Klonopin)	Clonazepam	Benzodiazepine ur qn
Diazepam (Valium)	Nordiazepam, temazepam, oxazepam	Benzodiazepine ur qn
Alprazolam (Xanax)	Alprazolam	Benzodiazepine ur qn
Lorazepam (Ativan)	Lorazepam	Benzodiazepine ur qn
Alcohol	Alcohol, alcohol volume %	Alcohol, urine
<p>Be aware that oxycodone, oxymorphone, tramadol, and fentanyl may not be detected on standard opioid immunoassay urine drug screens. Methylphenidate is not an amphetamine; amphetamine screen should be negative and methylphenidate confirmation should be ordered. Urine should test negative for oxidants. If positive, suspect adulteration.</p>		

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TABLE 2. Length of Time Drugs of Abuse Can Be Detected in Urine

Drug	Time
Alcohol	7-12 h
Amphetamine	48 h
Methamphetamine	48 h
Barbiturate	
Short-acting (eg, pentobarbital)	24 h
Long-acting (eg, phenobarbital)	3 wk
Benzodiazepine	
Short-acting (eg, lorazepam)	3 d
Long-acting (eg, diazepam)	30 d
Cocaine metabolites	2-4 d
Marijuana	
Single use	3 d
Moderate use (4 times/wk)	5-7 d
Daily use	10-15 d
Long-term heavy smoker	>30 d
Opioids	
Codeine	48 h
Heroin (morphine)	48 h
Hydromorphone	2-4 d
Methadone	3 d
Morphine	48-72 h
Oxycodone	2-4 d
Propoxyphene	6-48 h
Phencyclidine	8 d

Opiate Withdrawal - What to Expect				
	Dose	Withdrawal Onset	Withdrawal Peak	Withdrawal Ends
Fentanyl	.01 mg	3-5 hr	8-12 hr	4-5 days
Meperidine	20 mg	4-6 hr	8-12 hr	4-5 days
Oxycodone	1.5 mg	8-12 hr	36-72 hr	7-10 days
Hydromorphone	.5 mg	4-5 hr	36-72 hr	7-10 days
Heroin	1-2 mg	8-12 hr	36-72 hr	7-10 days
Morphine	3-4 mg	8-12 hr	36-72 hr	7-10 days
Codeine	30 mg	8-12 hr	36-72 hr	7-10 days
Hydrocodone	.5 mg	8-12 hr	36-72 hr	7-10 days
Methadone	n/a	36-72 hr	96-144 hr	14-21 days

[www.discoveryplace.info](http://www.discoveryplace.info)

**References:** Arup Laboratories' Drug analytes detected in plasma and urine. Available at <http://www.aruplab.com/Lab-Tests/resources/da-plasma-urine.pdf>.

Discovery Place's Opiate Detox – What are my options? Available <https://www.discoveryplace.info/opiate-detox-what-are-my-options>.

Moeller, KE, Lee, KC, Kissack, JC. Urine drug screening: Practical guide for clinicians. Mayo Clinic Proceedings. January 2008;83(1)66-77.