

DRUG ANALYTES DETECTED IN PLASMA AND URINE | DECEMBER 2010

DRUG, DRUG METABOLITE(S)*	COMMON TRADE AND STREET NAMES, NOTES	PLASMA HALF-LIFE †	URINE-DETECTION WINDOW †	REPORTING LIMITS	
				S/P ‡	U ‡
STIMULANTS					
Amphetamine	Benzedrine, dexedrine, Adderall, Vyvanse, speed; could be methamphetamine metabolite; if so, typically < 30 percent of parent	7–34 hours	3–5 days	20	200
Methamphetamine	Desoxyn, methedrine, Vicks inhaler (D- and L-isomers are not resolved; low concentrations expected if the source is Vicks); selegeline (Atapryl, Carbex, Carbex, Eldepryl, Zelapar) metabolite	6–17 hours	3–5 days	20	200
Methylenedioxymethamphetamine (MDMA)	XTC, ecstasy	6–10 hours		20	200
Methylenedioxyethylamphetamine (MDEA)	Eve, MDE	6–11 hours		20	200
Methylenedioxyamphetamine (MDA)	MDMA and MDEA metabolite	11–17 hours		20	200
Cocaine	Coke, crack; parent drug rarely observed due to short half-life	0.7–1.5 hours	< 1 day	20	N/A
Benzoylcegonine	Cocaine metabolite	5.5–7.5 hours	1–2 days	20	50
m-hydroxy benzoylcegonine [^]	Cocaine metabolite			20	N/A
Cocaehtylene	Cocaine metabolite (formed when cocaine is used with alcohol)	1.5–3.5 hours		20	N/A
Methylphenidate	Ritalin, Concerta, Metadate, Methylin	1.4–4.2 hours	< 1 day	1	10
Ritalinic acid	Methylphenidate metabolite	1.8–2.5 hours		10	100
Nicotine		0.4–1.5 hours	1–3 days	2	2
Cotinine	Nicotine metabolite		1–7 days	2	5
Norcotinine	Nicotine metabolite			N/A	50
trans-3-Hydroxycotinine	Nicotine metabolite			2	2
Anabasine	Alkaloid present in tobacco (supports active tobacco use vs. nicotine replacement)			N/A	3
OPIOIDS					
Buprenorphine	Buprenex, Suboxone, Subutex	26–42 hours		2	2
Norbuprenorphine	Buprenorphine metabolite	15–150 hours		2	2
Glucuronides [^]	Buprenorphine metabolites			5	5
Codeine	Included in many preparations; morphine metabolite; may be a contaminant if < 2 percent of morphine	1.9–3.9 hours	2–3 days	2	5
Dihydrocodeine	Drocode, DHC Plus, Synalgos-DC; codeine metabolite	3.4–4.5 hours		2	5
Fentanyl	Actiq, Duragesic, Fentora, Ionsys, Sublimaze	3–12 hours	1–3 days	0.1	1
Norfentanyl	Fentanyl metabolite	9–10 hours		0.1	1
Heroin	Diacetylmorphine, dope, smack, dust; parent drug not detected				
6-acetylmorphine [^]	Heroin metabolite; 6-monoacetylmorphine, 6-MAM	0.1–0.25 hours		2	5
Hydrocodone	Anexsia, Damason-P, Hycodan, Lortab, Maxidone, Norco, Panacet, Vicodin, Zydone; codeine metabolite; may be a contaminant if < 2 percent of oxycodone	3.4–8.8 hours	2–3 days	2	5
Hydromorphone	Dilaudid; morphine and hydrocodone metabolite	1.5–3.8 hours	2–3 days	2	5
Morphine	Included in many preparations; Astromorph, Avinza, DepoDur, Duramorph, Kadian, MS Contin; poppy seeds (low concentrations expected); heroin metabolite	1.3–6.7 hours	2–3 days	2	5
Oxycodone	Oxycontin (with acetaminophen: Endocet, Percocet, Roxicet; with aspirin: Endodan, Percodan, Roxiprin; with ibuprofen: Combunox)	3–6 hours	2–3 days	2	5
Oxymorphone	Numorphan, Opana; oxycodone metabolite	7.5–9.5 hours	2–3 days	2	5
Meperidine	Demerol, Mepergan	2–5 hours	1–2 days	2	2
Normeperidine [^]	Meperidine metabolite	18–24 hours		5	5
Methadone	Dolophine, Methadose	15–55 hours	1–14 days	10	10
EDDP	Methadone metabolite; 2-ethylidene-1,5-dimethyl-2,2-diphenylpyrrolidine	15–55 hours		10	10
Propoxyphene	Darvon, Wygesic (with acetaminophen: Darvocet, Digesic)	8–24 hours	1–7 days	10	10
Norpropoxyphene [^]	Propoxyphene metabolite	16–30 hours		10	20
Tapentadol	Nucynta	4 hours	2–3 days	2	2
N-Desmethyltapentadol [^]	Tapentadol metabolite			5	5
Tramadol	Ultram	4–8 hours	2–4 days	20	20
O-Desmethyltramadol [^] , N-Desmethyltramadol [^]	Tramadol metabolites	4–10 hours		50	50

* A metabolite is an end product that is eliminated and remains after a drug is modified (metabolized) by the body.

† Detection limits and plasma half-lives should be considered estimates. Numerous factors can affect these numbers; call the laboratory to discuss.

‡ Based on lowest concentration reported by GC-MS or LC-MS/MS; S/P—serum or plasma (ng/mL); U—urine (ng/mL); N/A— not available.

[^] Qualitative results only (quantitative result not reported).

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SEDATIVE-HYPNOTICS: BARTBITURATES

Amobarbital	Amytal	15–40 hours	4–6 days	50	50
Butalbital	Sandoctal	35–88 hours	4–6 days	50	50
Pentobarbital	Nembutal	20–30 hours	4–6 days	50	50
Phenobarbital	Luminal	2–6 days	1–16 days	50	50
Secobarbital	Seconal	22–29 hours	4–6 days	50	50

SEDATIVE-HYPNOTICS: BENZODIAZEPINES

Alprazolam	Xanax	6–27 hours	2–4 days	20	20
Alpha-hydroxyalprazolam	Alprazolam metabolite	13–20 hours		20	20
Clonazepam	Clonopin, Klonopin	19–60 hours	2–4 days	20	20
7-amino clonazepam	Clonazepam metabolite	30–92 hours		20	20
Diazepam	Valium, Valrelease	21–37 hours	2–7 days	20	20
Flurazepam	Dalmane; parent drug not detected				
Desalkylflurazepam	Flurazepam metabolite	34–154 hours		20	20
Alpha-hydroxyethylflurazepam	Flurazepam metabolite	1–2.5 hours		20	20
Lorazepam	Ativan	9–16 hours	5–7 days	20	20
Midazolam	Versed	1–4 hours		20	20
Nordiazepam	Librium, Paxipam, Tranxene, Centrax, Valium; metabolite of several drugs: chlorodiazepoxide (Librium), clorazepate (Tranxene), diazepam, halezepam (Paxipam), prazepam (Centrax)	85–110 hours		20	20
Oxazepam	Serax; nordiazepam and temazepam metabolite	4–11 hours	2–7 days	20	20
Temazepam	Normison, Restoril; diazepam metabolite	3–13 hours	1–4 days	20	20
Triazolam	Halcion; parent drug not detected				
Alpha-hydroxytriazolam	Triazolam metabolite	5–6 hours		20	20

HALLUCINOGENS

Phencyclidine (PCP)	PCP, Sernyl, Sernylan, angel dust	7–46 hours		10	10
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CANNABINOIDS

11-Nor-9-Carboxy-Delta-9-Tetrahydrocannabinol	Marinol, drabinol, marijuana, weed, cannabis, ganja, hashish, pot, THC; cannabinoid metabolite	4–12 h	1–45 days	5	5
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