

CUTOFF AND TOXICITY LEVELS FOR DRUGS-OF-ABUSE TESTING

This table summarizes information for the interpretation of drugs-of-abuse assays; originally developed by the late Daniel M. Baer, MD, and updated by Richard A. Paulson, MT(ASCP), supervisor of Chemistry and Toxicology, VA Medical Center, Portland, OR. The table was updated and reviewed last year by Lindsay A.L. Bazydlo, PhD, DABCC, FACB, Assistant Professor, Director of Toxicology Laboratory, co-Director of Special Coagulation Laboratory, Associate Director of Clinical Chemistry Laboratory, Dept. of Pathology, University of Virginia.

	Drug (and trade name)	Common street names	Detectable duration in urine after last dose	Urine cutoff points for reporting positive by screening assay*	Toxic blood level	Blood reference (therapeutic) range
OPIATES	Heroin (Diacetylmorphine)	Horse, Stuff, Smack, Junk	1-2 days (total opiate)	2000 ng/mL (as morphine) 150 ng/mL (as 6-monacetyl morphine)	>200 ng/mL	None detected
	Morphine (Duramorph)	M, Junk, Morpho, White stuff	2 days	2000 ng/mL 300 ng/mL	>200 ng/mL	10-80 ng/mL
	Methadone (Dolophine, Amidone)	Methadose	3 days	300 ng/mL 200 ng/mL 150 ng/mL	>2000 ng/mL	For narcotic stabilization: 300-1000 ng/mL For pain: 100-400 ng/mL
	Meperidine (Demerol, Pethidine)	Fortis, Demies	2-3 days	200 ng/mL	>1000 ng/mL	70-500 ng/mL
	Codeine (Analgesics with codeine)	Rabo, School boy	2 days	2000 ng/mL 300 ng/mL	>1000 ng/mL	10-100 ng/mL
	Tramadol (Ultram, Tramal Ultracet)	Ultra T	6 hours to 2 days	not established	not established	Variable by patient
	Oxycodone (Oxycontin, OxyIR, Percocet, Percodan)	Oxy, OC, Oxycotton, Killer	1-3 days	100 ng/mL 300 ng/mL	>200 ng/mL	10-100 ng/mL
	Hydrocodone (Lorcet, Vicodin, Lortab, Hycodan)	Vikes, Hydro, Norco	1-2 days	300 ng/mL 100 ng/mL 50 ng/mL	>100 ng/mL	10-40 ng/mL
	Hydromorphone (Dilaudid)	Dust, Juice, Smack, D, Footballs	1-2 days	2000 ng/mL 300 ng/mL	>100 ng/mL	10-30 ng/mL
	Fentanyl (Sublimaze, Duragesic, Actiq, Fentora)	Percopop, Apache, China girl, China white, Dance fever, Friend, Goodfella, Jackpot, Murder 8, TNT, Tango and Cash	1-2 days	5 ng/mL	>34 ng/mL >3 ng/mL (naïve patients)	1-3 ng/mL (highly variable; depends on dose and route of administration)
HALLUCINOGENS	Lysergic acid, diethylamide (LSD)	Acid, Microdot, White lightning	1-5 days	0.5 ng/mL 100 pg/mL	>2 ng/mL	None detected
	Marijuana and cannabinoids	Mary Jane, Hashish, Bhang, Ganja, Sensemilla	Single use: 2-7 days (as Δ9-THC-COOH) Prolonged use: 1-2 months (as Δ9-THC-COOH)	100, 50, 25, or 20 ng/mL 15 ng/mL	50-200 ng/mL	None detected
	Phencyclidine	PCP, Angel dust, Killer weed, Hog	Single use: 1 week Prolonged use: 2-4 weeks	25 ng/mL	100 ng/mL	None detected
STIMULANTS	Cocaine	Coke, Crack, Flake, Snow	Single use: 3 days Prolonged use: 4 days	300 ng/mL 150 ng/mL (as metabolite benzoyllecgonine)	>1000 ng/mL	100-500 ng/mL
	Amphetamine (Benzedrine, Dexedrine)	Speed, Bennies, Uppers, Dexies	Single use: 48 hours Prolonged use: 7-10 days	100 ng/mL 500 ng/mL	>200 ng/mL	20-30 ng/mL
	Methylene-3,4 dioxymethamphetamine (MDMA)	Ecstasy, Adam, XTC, Love drug, Hug drug	Single use: 24 hours	3000-5000 ng/mL 5 ng/mL	100-1000 ng/mL	20-30 ng/mL
	Methamphetamine (Desoxyn, Methedrine)	Speed, Meth, Crystal ice, Crank	Single use: 48 hours Prolonged use: 7-10 days	100 ng/mL 500 ng/mL	>500 ng/mL	10-50 ng/mL

*Based on common screening assays currently in use (2018) and CAP Proficiency Testing reporting (2009-2016) unless otherwise indicated.

Confirmation results by Gas Chromatography-Mass Spectrometry (GC-MS) or Liquid Chromatography-Mass Spectrometry/Mass Spectrometry (LC-MS/MS) vary by laboratory.