

Table. Reference Ranges for Drug Monitoring, Assess Panel, Comprehensive, Qualitative, Urine

Analyte	Common Trade Names	Metabolite Names	Urine Cutoff, ng/mL
1-(3-Chlorophenyl)piperazine	mCPP	Desyrel [®] (trazodone) metabolite	50
10-Hydroxycarbazepine		Trileptal [®] (oxcarbazepine) metabolite	250
11-Nor-9-carboxy-THC (THCCOOH) ^{a,b}		Marijuana metabolite	100
6-Acetylmorphine		6-MAM, heroin metabolite	50
6 β -Naltrexol		Vivitrol [®] , ReVia [®] (naltrexone) metabolite	100
Acetaminophen	Tylenol [®] , Paracetamol		1,000
Acetyl fentanyl			10
Aminoclonazepam		Klonopin [®] (alprazolam) metabolite	100
Amitriptyline	Elavil [®]		50
Amobarbital/Pentobarbital ^b	Amytal [®] /Nembutal [®]		1,000
Amphetamine	Adderall [®] , Vyvanse [®]	Methamphetamine metabolite	250
Aripiprazole	Abilify [®]		50
Baclofen	Lioresal [®] , Gablofen [®]		100
Benzoyllecgonine		Cocaine metabolite	100
Brexipiprazole	Rexulti [®] , Rxulti [®]		50
Buprenorphine	Suboxone [®] , Buprenex [®] , Sublocade [®] , Probuphine [®] , Belbuca [®] , Butrans [®]		50
Butalbital	Fioricet [®] , Fiorinal [®]		1,000
Carbamazepine	Tegretol [®]		250
Carbamazepine 10,11-epoxide metabolite/Oxcarbazepine ^b		Tegretol [®] (carbamazepine) metabolite	250
Carisoprodol	Soma [®]		1,000
Chlorpheniramine	Multiple over-the-counter formulations		100
Chlorpromazine	Thorazine [®]		50
Citalopram/Escitalopram ^b	Celexa [®] /Lexapro [®]		50
Clozapine	Clozaril [®]		50
Codeine ^c	Tylenol 3 [®]	Hydrocodone metabolite	100
Cotinine		Nicotine metabolite	100
Cyclobenzaprine	Flexeril [®] , Amrix [®]		50
Desipramine	Norpramin [®]	Imipramine metabolite	50
Desmethylcitalopram		Celexa [®] (citalopram) metabolite	50
Desmethyldoxepin		Doxepin metabolite	50

Analyte	Common Trade Names	Metabolite Names	Urine Cutoff, ng/mL
Dextromethorphan	Multiple over-the-counter formulations		100
Dextrorphan/Levorphanol ^b	Levorphanol	Dextromethorphan metabolite	100
Diazepam	Valium [®]		100
Dihydrocodeine	Trezix [®]	Vicodin [®] (hydrocodone) metabolite	100
Diphenhydramine	Benadryl [®] , multiple over-the-counter formulations		100
Doxepin	Sinequan [®]		50
Doxylamine	Unisom [®] , multiple over-the-counter formulations		100
Duloxetine	Cymbalta [®]		50
EDDP		Methadone metabolite	100
Ephedrine	Multiple over-the-counter formulations		100
Eszopiclone	Lunesta [®]		50
Fentanyl	Actiq [®] , Duragesic [®] , Sublimaze [®]		10
Fluoxetine	Prozac [®]		50
Gabapentin	Neurontin [®] , Horizant [®] , Gralise [®]		1,000
Haloperidol	Haldol [®]		50
Hydrocodone	Vicodin [®] , Norco [®] , Lortab [®]	Codeine metabolite, pharmaceutical impurity of oxycodone (up to 1%)	100
Hydromorphone	Dilaudid [®]	Hydrocodone metabolite, morphine metabolite	100
Hydroxyalprazolam		Xanax [®] (alprazolam) metabolite	100
Hydroxybupropion		Wellbutrin [®] (bupropion) metabolite	50
Hydroxyrisperidone		Risperdal [®] (risperidone) metabolite	50
Hydroxyzine	Atarax [®] , Vistaril [®]		50
Ibuprofen	Advil [®] , Motrin [®] , multiple over-the-counter formulations		3,000
Imipramine	Tofranil [®]		50
Ketamine	Ketalar [®]		50
Lamotrigine	Lamictal [®]		250
Levetiracetam	Keppra [®]		250
Lidocaine	Xylocaine [®] , multiple over-the-counter formulations		100
Lorazepam	Ativan [®]		100

Analyte	Common Trade Names	Metabolite Names	Urine Cutoff, ng/mL
Lurasidone	Latuda®		50
MDA		Molly, Ecstasy (MDMA) metabolite	250
MDEA		Molly, Ecstasy (MDMA) metabolite	250
MDMA	Molly, ecstasy		250
MegX (lidocaine metabolite)		Lidocaine metabolite	100
Meprobamate		Soma® (carisoprodol) metabolite	1,000
Methadone	Dolophine®		100
Methamphetamine	Illicit: meth, crystal meth Licit: Desoxyn®	Didrex® (benzphetamine) metabolite, Eldepryl® (selegiline) metabolite, non-prescription inhalers as decongestants	250
Methocarbamol	Robaxin®		50
Mirtazapine	Remeron®		50
Mitragynine	Kratom		10
Morphine ^c	Dolophine®	Codeine metabolite, heroin metabolite	100
Naloxone	Narcan®, Evzio®		100
Naltrexone	ReVia®, Vivitrol®		100
Naproxen	Aleve®		1,000
Norbuprenorphine		Subutex®, Suboxone®, Buprenex® (buprenorphine) metabolite	100
Norclozapine		Clozaril® (clozapine) metabolite	50
Norcyclobenzaprine		Flexeril® (cyclobenzaprine) metabolite	50
Nordiazepam		Valium® (diazepam) metabolite	100
Norfentanyl		Actiq®, Duragesic®, Sublimaze® (fentanyl) metabolite	10
Norfluoxetine		Prozac® (fluoxetine) metabolite	50
Norhydrocodone		Vicodin®, Norco®, Lortab® (hydrocodone) metabolite	100
Norketamine		Ketalar® (ketamine) metabolite	50
Noroxycodone		Oxycontin® (oxycodone) metabolite	100
Noroxymorphone		Opana® (oxymorphone) metabolite	100
Nortapentadol		Nucynta® (tapentadol) metabolite	100

Analyte	Common Trade Names	Metabolite Names	Urine Cutoff, ng/mL
Nortriptyline		Elavil® (amitriptyline) metabolite	50
O-Desmethyltramadol		Ultram® (tramadol) metabolite	100
O-Desmethylvenlafaxine		Effexor® (venlafaxine) metabolite	50
Olanzapine	Zyprexa®		50
Oxazepam	Serax®	Valium® (diazepam) metabolite, Restoril® (temazepam) metabolite, Librium® (chlordiazepoxide) metabolite	100
Oxycodone	Oxycontin®		100
Oxymorphone	Opana®	Oxycontin® (oxycodone) metabolite	100
Phencyclidine	PCP		50
Phenobarbital	Solfoton®, Luminal®		1,000
Phentermine	Adipex-P®		250
Phenytoin	Dilantin®		250
Pregabalin	Lyrica®		1,000
Promethazine	Phenergan®		100
Pseudoephedrine	Sudafed®		100
Quetiapine	Seroquel®		50
Ranitidine	Zantac®		1,000
Risperidone	Risperdal®		50
Ritalinic acid		Ritalin® (methylphenidate) metabolite	100
Salicylic acid	Aspirin, multiple over the counter formulations		1,000
Sertraline	Zoloft®		50
Tapentadol	Nucynta®		100
Temazepam	Restoril®	Valium® (diazepam) metabolite	100
Tizanidine	Zanaflex®		100
Topiramate	Topamax®		1,000
Tramadol	Ultram®		100
Trazodone	Desyrel®		50
Venlafaxine	Effexor®		50
Zolpidem	Ambien®		50
Zolpidem phenyl-4-COOH		Ambien® (zolpidem) metabolite	50

^a Marijuana metabolite 11-nor-9-carboxy-THC (THC-COOH) detection is consistent with exposure to marijuana (THC) and/or hemp-derived products. Some jurisdictions do not include hemp within the definition of marijuana.

^b The test is unable to separate the following because of their structural similarities: (1) amobarbital and pentobarbital; (2) carbamazepine 10,11-epoxide metabolite and oxcarbazepine; (3) citalopram and escitalopram; (4); dextrorphan and levorphanol (5) Δ8-THC-COOH and Δ9-THC-COOH.

^c Low concentrations of morphine and/or codeine have been observed following ingestion of products containing poppy seeds.