

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

Analyte	Description	Common trade names	Urine cutoff, ng/mL
1-(3-Chlorophenyl)piperazine	Trazodone metabolite	Desyre [®]	50
10-Hydroxycarbazepine	Oxcarbazepine metabolite	Trileptal [®]	250
11-Nor-9-carboxy-THC (THCCOOH) ^{a,b}	Marijuana metabolite	Illicit/recreational: marijuana	100
6-Acetylmorphine	6-MAM, heroin metabolite	Illicit: heroin	50
6 β -Naltrexol	Naltrexone metabolite	Vivitrol [®] , ReVia [®]	100
Acetaminophen		Tylenol [®] , paracetamol	1,000
Acetyl fentanyl			10
Aminoclonazepam	Clonazepam metabolite	Klonopin [®]	100
Amitriptyline		Elavil [®]	50
Amobarbital/Pentobarbital ^b		Amytal [®] /Nembutal [®]	1,000
Amphetamine	Methamphetamine metabolite	Adderall [®] , Vyvanse [®]	250
Aripiprazole		Abilify [®]	50
Baclofen		Lioresal [®] , Gablofen [®]	100
Benzoylcegonine	Cocaine metabolite	Illicit: cocaine	100
Brexpirazole		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	Carbamazepine metabolite	Tegretol [®]	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 [®]	100
Cotinine	Nicotine metabolite	Multiple nicotine-containing formulations	100
Cyclobenzaprine		Flexeril [®] , Amrix [®]	50
Desipramine	Imipramine metabolite	Norpramin [®]	50
Desmethylcitalopram	Citalopram metabolite	Celexa [®]	50
Desmethyldoxepin	Doxepin metabolite	Silenor [®] , Sinequan [®]	50

Analyte	Description	Common trade names	Urine cutoff, ng/mL
Dextromethorphan		Multiple over-the-counter formulations	100
Dextrorphan/Levorphanol ^b	Dextromethorphan metabolite, Levorphanol	Levo-Dromoran [®]	100
Diazepam		Valium [®]	100
Dihydrocodeine	Hydrocodone metabolite	Trezix [®]	100
Diphenhydramine		Benadryl [®] , multiple over-the-counter formulations	100
Doxepin		Silenor [®] , Sinequan [®]	50
Doxylamine		Unisom [®] , multiple over-the-counter formulations	100
Duloxetine		Cymbalta [®]	50
EDDP	Methadone metabolite	Dolophine [®]	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	Codeine metabolite, pharmaceutical impurity of oxycodone (up to 1%)	Vicodin [®] , Norco [®] , Lortab [®]	100
Hydromorphone	Hydrocodone metabolite, morphine metabolite	Dilaudid [®]	100
Hydroxyalprazolam	Alprazolam metabolite	Xanax [®]	100
Hydroxybupropion	Bupropion metabolite	Wellbutrin [®]	50
Hydroxyrisperidone	Risperidone metabolite	Risperdal [®]	50
Hydroxyzine		Atarax [®] , Vistaril [®]	50
Ibuprofen		Advil [®] , Motrin [®] , multiple over-the-counter formulations	3,000
Imipramine		Tofranil [®]	50
Ketamine		Ketalar [®] , Spravato [®]	50
Lamotrigine		Lamictal [®]	250
Levetiracetam		Keppra [®]	250
Lidocaine		Xylocaine [®] , multiple over-the-counter formulations	100
Lorazepam		Ativan [®]	100
Lurasidone		Latuda [®]	50
MDA	MDMA metabolite	Illicit: Molly, Ecstasy	250

Analyte	Description	Common trade names	Urine cutoff, ng/mL
MDEA	MDMA metabolite	Illicit: Molly, ecstasy	250
MDMA		Illicit: Molly, ecstasy	250
MegX (lidocaine metabolite)	Lidocaine metabolite	Lidoderm®, Xylocaine®	100
Meprobamate	Carisoprodol metabolite	Soma®	1,000
Methadone		Dolophine®	100
Methamphetamine	Benzphetamine metabolite, selegiline metabolite, non-prescription inhalers as decongestants	Desoxyn®, Didrex®, Selegiline®, Illicit: meth, crystal meth	250
Methocarbamol		Robaxin®	50
Mirtazapine		Remeron®	50
Mitragynine		Illicit: kratom	10
Morphine ^c	Codeine metabolite, heroin metabolite	Dolophine®	100
Naloxone		Narcan®, Evzio®	100
Naltrexone		ReVia®, Vivitrol®	100
Naproxen		Aleve®	1,000
Norbuprenorphine	Buprenorphine metabolite	Subutex®, Suboxone®, Buprenex®	100
Norclozapine	Clozapine metabolite	Clozaril®	50
Norcyclobenzaprine	Cyclobenzaprine metabolite	Flexeril®	50
Nordiazepam	Diazepam metabolite, chlordiazepoxide metabolite, clorazepate metabolite	Valium®, Librium®, Tranxene®	100
Norfentanyl	Fentanyl metabolite	Actiq®, Duragesic®, Sublimaze®	10
Norfluoxetine	Fluoxetine metabolite	Prozac®	50
Norhydrocodone	Hydrocodone metabolite	Vicodin®, Norco®, Lortab®	100
Norketamine	Ketamine metabolite	Ketalar®, Spravato®	50
Noroxycodone	Oxycodone metabolite	Oxycontin®	100
Noroxymorphone	Oxymorphone metabolite	Opana®	100
Nortapentadol	Tapentadol metabolite	Nucynta®	100
Nortriptyline	Amitriptyline metabolite	Elavil®	50
O-Desmethyltramadol	Tramadol metabolite	Ultram®	100
O-Desmethylvenlafaxine	Venlafaxine metabolite	Effexor®	50
Olanzapine		Zyprexa®	50
Oxazepam	Diazepam metabolite, temazepam metabolite,	Valium®, Librium®, Tranxene®, Serax®, Restoril®	100

Analyte	Description	Common trade names	Urine cutoff, ng/mL
	chlordiazepoxide metabolite		
Oxycodone		Oxycontin®	100
Oxymorphone	Oxycodone metabolite	Opana®, Oxycontin®	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	Methylphenidate metabolite	Ritalin®	100
Salicylic acid		Aspirin, multiple over the counter formulations	1,000
Sertraline		Zoloft®	50
Tapentadol		Nucynta®	100
Temazepam	Diazepam metabolite	Valium®, Restoril®	100
Tizanidine		Zanaflex®	100
Topiramate		Topamax®	1,000
Tramadol		Ultram®	100
Trazodone		Desyrel®	50
Venlafaxine		Effexor®	50
Zolpidem		Ambien®	50
Zolpidem phenyl-4-COOH	Zolpidem metabolite	Ambien®	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); dextrophan 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.

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