

Table 3-3. Testing Menu for Pain Management (Licit and Illicit Drugs)

Screening Assays (Typical target analyte and cutoff options)	Confirmation Assays (Drugs currently considered clinically relevant in each drug class)
Amphetamines/methamphetamines (ρ -amphetamine at 500 [1000] ng/mL)	Amphetamine, methamphetamine, methylenedioxyamphetamine (MDMA, Ecstasy), methylenedioxyamphetamine (MDA), methylenedioxyethylamphetamine (MDEA), phentermine
Barbiturates (secobarbital at 200 [300] ng/mL)	Amobarbital, butalbital, pentobarbital, phenobarbital, secobarbital
Benzodiazepines (nordiazepam at 150 [200] ng/mL)	Nordiazepam, oxazepam, lorazepam, temazepam, hydroxyethyl-flurazepam, 7-aminoclonazepam (clonazepam metabolite), α -hydroxyalprazolam (alprazolam metabolite), 7-aminoflunitrazepam (flunitrazepam metabolite), α -hydroxytriazolam (triazolam metabolite)
Buprenorphine at 5 ng/mL	Buprenorphine
Norbuprenorphine at 10 ng/mL	Norbuprenorphine
Cocaine (benzoylecgonine at 150 [300] ng/mL)	Benzoylecgonine, cocaine, Cocaethylene (possibly)
Methadone (methadone at 300 ng/mL)	Methadone, 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)
Opiates (morphine at 300 [2000] ng/mL)	Morphine, codeine, oxycodone, oxymorphone, hydrocodone, hydromorphone
Oxycodone (oxycodone at 100 ng/mL)	Oxycodone
Propoxyphene (propoxyphene at 300 ng/mL)	Propoxyphene, Norpropoxyphene
Tetrahydrocannabinol (THC) (Δ^9 -COOH THC at 20 [50] ng/mL)	THC carboxylic acid (THC-COOH)
Others: phencyclidine (PCP), lysergic acid diethylamide (LSD), methylenedioxyamphetamine (MDMA) Serum: salicylate, acetaminophen	

Note: Based on the College of American Pathologists Urine Drug Screen 2009 Survey, 95% of participants used the 50 ng/mL cutoff for THC compared with the 20 ng/mL cutoff, and the majority of participants used the 300 ng/mL

cutoff for benzoylecgonine and the 1000 ng/mL cutoff for the amphetamine group (Participant Summary Reports, Urine Drug Screen [UDS] Survey. Northfield, IL: College of American Pathologists; 2009).