

Recommended Maximum Detection Limits for Common DFSA Drugs and Metabolites in Urine Samples

Target Analytes	Parent Drug	Trade Names / "Street Names"	Recommended Maximum Detection Limit
Ethanol:			
Ethanol	Ethanol	Alcohol, Ethyl Alcohol, "Booze"	10 mg/dL
GHB and Analogs:			
Gamma-Hydroxybutyrate	Gamma-Hydroxybutyrate	Xyrem , "GHB", Easy Lay", "G", "Georgia Home Boy", "Grievous Bodily Harm", "Liquid Ecstasy", "Liquid E", "Liquid G", "Liquid X", "Salty Water", "Scoop", "Soap"	10 µg/mL
	1,4-Butanediol	"1,4-BD", "Enliven", "Inner G", "Revitalize Plus", "Serenity", "SomatoPro", "Sucol B", "Thunder Nectar", "Weight Belt Cleaner", "White Magic"	
	Gamma-Butyrolactone	"GBL", "Blue Nitro", "G3", "Gamma G", "G.H. Revitalizer", "Insom-X", "Invigorate", "Remforce", "Renewtrient", "Verve"	
Benzodiazepines:			
Many benzodiazepines are biotransformed into glucuronide-conjugated metabolites. To improve detection limits and times, it is recommended that laboratories use instrumental techniques that will detect the glucuronide metabolites <i>or</i> hydrolyze urine specimens to free the conjugate before extraction.			
Alprazolam	Alprazolam	Xanax , Niravam	10 ng/mL
α-hydroxy-alprazolam			
Chlordiazepoxide	Chlordiazepoxide	Librium , Libritabs	10 ng/mL
Clonazepam	Clonazepam	Clonapin, Klonopin , Rivotril	5 ng/mL
7-aminoclonazepam			
Diazepam	Diazepam	Valium , Diastat, Dizac,	10 ng/mL
Flunitrazepam	Flunitrazepam	Rohypnol	5 ng/mL
7-aminoflunitrazepam			
Lorazepam	Lorazepam	Ativan	10 ng/mL
Nordiazepam	Diazepam, Chlordiazepoxide		10 ng/mL
Oxazepam	Oxazepam, Diazepam, Chlordiazepoxide, Nordiazepam, Temazepam	Serax	10 ng/mL
Temazepam	Temazepam, Diazepam	Normison, Restoril	10 ng/mL
Triazolam	Triazolam	Halcion	5 ng/mL
4-hydroxy-triazolam			

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Marijuana:			
11-carboxy-THC	Tetrahydrocannabinol (THC)	Marinol, Dronabinol, "Marijuana", <i>Cannabis sativa</i>	10 ng/mL
Barbiturates:			
Amobarbital	Amobarbital	Amytal	25 ng/mL
Butalbital	Butalbital	Esgic, Fioricet, Fiorpap, Fiorinal	
Pentobarbital	Pentobarbital, Thiopental	Nembutal	
Phenobarbital	Phenobarbital, Primidone		
Secobarbital	Secobarbital	Seconal, Tuinal	20 ng/mL
Over-the-Counter Medications:			
Brompheniramine	Brompheniramine	Alatapp, Bromaline, Bromanate, Bromfed, Bromphen, Dimetane, Dimetapp, Myphetane, Polytime, Puretane,	10 ng/mL
Desmethylbrompheniramine			
Chlorpheniramine	Chlorpheniramine	Aller Chlor, Chlor-Trimeton, Coricidin, Deconamine, Efidac, Kronofed, Teldrin	
Desmethylchlorpheniramine			
Dextromethorphan	Dextromethorphan	Benylin, Romilar, Delsym	
Diphenhydramine	Diphenhydramine	Banophen, Belix, Benadryl, Dermarest, Excedrin PM, Hydramine, Sleepinal, Sleep-Eze 3, Tylenol PM, Unisom Sleep Gels	
Doxylamine	Doxylamine	Unisom, Bendectin	
Desmethyldoxylamine			
Anti-Depressants:			
Amitriptyline	Amitriptyline	Elavil, Endep	10 ng/mL
Nortriptyline			
Citalopram	Citalopram	Celexa, Cipramil	
Desmethylcitalopram			
Desipramine	Desipramine, Imipramine	Norpramin, Pertofrane	
Doxepin	Doxepin	Sinequan, Adapin, Zonalon, Prudoxin,	
Desmethyldoxepin			
Fluoxetine	Fluoxetine	Prozac, Sarafem	
Norfluoxetine			
Imipramine	Imipramine	Tofranil	
Paroxetine		Asimia, Paxil	

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Sertraline Norsertaline	Sertraline	Zoloft	
Narcotic and Non-Narcotic Analgesics:			
Codeine	Codeine		10 ng/mL
Fentanyl	Fentanyl	Actiq, Duragesic, Sublimaze, Innovar	
Hydrocodone	Hydrocodone	Anexsia, Hycodan, Lorcet, Lortab, Norco, Panacet, Vicodin, Zydone	
Hydromorphone	Hydromorphone	Dilaudid, Palladone	
Meperidine Normeperidine	Meperidine	Demerol, Mepergan	
Methadone EDDP	Methadone	Dolophine	
Morphine	Morphine	Avinza, Astramorph, Duramorph, Kadian, MSIR, MS Contin, Oramorph, Roxanol	
Oxycodone	Oxycodone	Oxycontin, Oxyir, Roxicodone, Percodan, Percocet, Percolone, Roxicet, Tylox	
Propoxyphene Norpropoxyphene	Propoxyphene	Darvocet, Darvon, Wygesic	
Miscellaneous Drugs:			
Carisoprodol	Carisoprodol	Soma	50 ng/mL
Clonidine	Clonidine	Catapres, Combipres, Clorpres, Duraclon	1 ng/mL
Cyclobenzaprine	Cyclobenzaprine	Flexeril	10ng/mL
Ketamine Norketamine	Ketamine	Ketalar	1 ng/mL
Methylenedioxyamphetamine	Methylenedioxyamphetamine		10 ng/mL
Methylenedioxymethamphetamine	Methylenedioxymethamphetamine		
Meprobamate	Meprobamate, Carisoprodol	Equagesic, Equanil, Micrainin, Miltown	50 ng/mL
Phencyclidine	Phencyclidine		10 ng/mL
Scopolamine	Scopolamine	Isopto Hyoscine, Scopace, Transderm Scop	
Valproic Acid	Valproic Acid	Depacon, Depakene, Valproate	50 ng/mL
Zolpidem	Zolpidem	Ambien	10 ng/mL

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Stimulants:			
While the below drugs do not possess the pharmacological effects typically associated with DFSA drugs, due to their popularity, it is recommended that screens for these drugs and metabolites be conducted at the detection limits listed or better.			
Amphetamine	Amphetamine, Methamphetamine	Adderall	50 ng/mL
Cocaine	Cocaine		50 ng/mL
Benzoylcegonine			
Methamphetamine	Methamphetamine	Desoxyn	50 ng/mL