Drugs of Abuse Reference Guide

LabCorp encourages the use of an independent Medical Review Officer (MRO) to review all non-negative test results. The following are to be used as general guidelines only. Many variables may affect duration of detectability, such as drug metabolism and half-life, subject's physical condition, fluid balance and state of hydration, and route and frequency of ingestion.

Drug		LabCorp Standard Screening Cut-off Level	Confir	Corp d GC/MS mation f Level	Detection Time in Urine	
Stimulants						
Amphetamine Also known as: speed Pharmaceutical names: Dexedrine, Benzedrine			1000 ng/mL	500 ng/mL		1 to 2 days ²
Methamphetamine Also known as: speed, ice, crystal, crank Pharmaceutical names: Desoxyn, Methedrine			1000 ng/mL	500 ng/mL		1 to 2 days ²
MDMA (Methylenedioxymethamphetamine) Also known as: ecstasy, XTC, ADAM, lover's speed			500 ng/mL	250 ng/mL		1 to 2 days ²
Cocaine Also known as: coke, crack, rock cocaine			300 ng/mL	L 150 ng/mL		2 to 4 days ²
Hallucinogens Hallucinogens						
Marijuana/Cannabinoids Also known as: dope, weed, hemp, hash, Colombian, sinsemilla Pharmaceutical name: ² Marinol			50 ng/mL	15 ng/mL		Single use: 2 to 7 days ¹ Prolonged use: 1 to 2 months ¹
Phencyclidine Also known as: PCP, angel dust			25 ng/mL	25 ng/mL		14 days ² up to 30 days in chronic users ²
Codeine			Narcotics/Analg			2 days?
Codeine			2000 ng/mL	2000 ng/mL		2 days ²
Morphine and/or Heroin Heroin also known as: smack, tar, chasing the tiger Pharmaceutical names: Duramorph ¹ , Roxanol ³			2000 ng/mL	2000 ng/mL		2 days ²
Methadone Also known as: fizzies Pharmaceutical names: ¹ Amidone, Dolophine			300 ng/mL	300 ng/mL		3 days²
Propoxyphene Pharmaceutical names: ^{1,2} Darvon, Darvocet, Novopropoxyn			300 ng/mL	300 ng/mL		6 hours to 2 days ²
			Depressants/Seda			
Barbiturates Also known as: downers, barbs, goof balls, reds, yellow jackets Pharmaceutical names: Amobarbital (Amytal), Butalbital (Fiorinal), Pentobarbital (Nembutal), Phenobarbital (Donnatal), Secobarbital (Seconal)			200 ng/mL	200 ng/mL		Short acting: 2 days¹ Long acting: 1 to 3 weeks¹
Benzodiazepines Also know as: bennies Pharmaceutical names: ^{1,2} Diazepam (Valium), Oxazepam (Serax), Chlordiazepoxide (Librium), Alprazolam (Xanax), Chlorazepate (Tranxene), Temazepam (Restoril)			200 ng/mL	200 ng/mL		Therapeutic dose: 3 days ² Extended dosage or chronic use (1 or more years): 4 to 6 weeks ²
Ethyl Alcohol Also know as: liqour, distilled spirits, beer, wine, booze, hooch Pharmaceutical names: Ethanol			0.02% (20 mg/dL)	0.02% (20 mg/dL)		In urine: 1 to 12 hours ² In serum and plasma: 1 to 12 hours ²
			Specimen Validity Testing		g	
Validity Marker	Commercial Product	Method	od of introduction to urine		Mode of action	
Creatinine	N/A	always p	or in vitro, this substance oresent in urine but is use dilute or substituted spe	ed to	Creatinine is excreted from the body at a constant rate and there are expected values for creatinine in urine. When abnormally large quantities of fluids are consumed (in vivo) the urine becomes dilute and the creatinine levels are substantially reduced, as well as other urine constituents including drugs and their metabolites. Alternately, a donor may try to beat a test by adding water to the urine cup (in vitro) to dilute the drug level. Creatinine levels are used in conjunction with a specific gravity determination to identify the specimen as dilute or substituted.	
Nitrites	Klear, Whizzies	In vitro, donor adds potassium nitrite to urine in collection cup.			Nitrites are also oxidizing agents that attach the drug molecules when present at high concentrations. The key effect of nitrites is, when present, they will interfere with the GC/MS confirmation of a cannabinoid positive.	
рН	N/A In vivo by ingestion of materials that change the urinary pH outside of a range (next to impossible) or in vitre the donor adds a substance to the modify the pH of the specimen drains.			f a normal vitro, where ne urine to	The pH of the sample may influence enzymatic test methods used in drug screening. An extreme pH, either very high (>11) or very low (<3) may depress the enzyme rate. Another influence is that extreme pH conditions may adversely affect the stability of the drug being tested, and the drug may not be detectable during retest or confirmation.	
liquids or			donor consumes large quantities of r in vitro, the donor adds something ine in the cup.		Normal urine has an expected range of specific gravity values. When donors consume large quantities of liquids to dilute their urine, their urine specific gravity may dip to low levels.	

- 1. Baer DM, Paulson RA, Williams RH. Cut-off and toxicity levels for drugs-of-abuse testing. Clin Lab Ref. 2006-2007 Aug; (MLO Suppl): 12-13.
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