

Drug Detection Times in Blood, Oral Fluid, & Urine						
Drug	Blood	References	Oral Fluid	References	Urine	References
Δ9-Tetrahydrocannabinol (THC)	Smoked: 3.5-5.5 hours Eaten: up to 16 hours	1	Smoked: 2 to ≥22 hours Eaten: 1 to ≥48 hours	2, 3, 4, 5	N/A	
11-nor-9-carboxy-Δ9-Tetrahydrocannabinol (THCCOOH)	Smoked: 48-152 hours Eaten: 7-51 hours	1, 5	Smoked: N/A Eaten: 3 to 122 hours	5, 4	Smoked: 34-120 hours (dose dependent) Chronic: ≥30 days	6, 2
Cocaine	Intranasal: 4-6 hours	6	Intravenous: 4-8 hours	2	Up to 40 hours	2
Cocaine Metabolite (Benzoylecgonine)	Intranasal: up to 48 hours	7, 6	Intravenous, Intranasal, Smoked: 12-24 hours	8, 6	Intranasal: 48-72 hours	9, 6
Amphetamine	Oral: up to 46 hours	10, 6	Oral: 20-50 hours	6, 11	Up to 5 days	12
Methamphetamine	Smoked: up to 48 hours	13, 6	Oral 36-72 hours	14, 6	Oral: 87+/-51 hours	15, 6

All information is obtained from peer reviewed scientific literature and compiled to provide guidance on average detection times of drugs in average individuals. All material provided is from infrequent drug usage, chronic drug usage may result in the continual presence of a drug in an individual's blood, oral fluid, or urine.

References:

1. Huestis MA. Human cannabinoid pharmacokinetics. *Chem Biodivers*. 2007 Aug;4(8):1770-804.
2. Anizan, S., & Huestis, M. (2014). The Potential Role of Oral Fluid in Antidoping Testing. *Clinical Chemistry*, 60(2), 307–322.
3. Milman, G., Barnes, A. J., Schwoppe, D. M., Schwilke, E. W., Goodwin, R. S., Kelly, D. L., ... Huestis, M. A. (2011). Cannabinoids and metabolites in expectorated oral fluid after 8 days of controlled around-the-clock oral THC administration. *Analytical and Bioanalytical Chemistry*, 401(2).
4. Newmeyer, M. N., Desrosiers, N. A., Lee, D., Mendu, D. R., Barnes, A. J., Gorelick, D. A., & Huestis, M. A. (2014). Cannabinoid disposition in oral fluid after controlled cannabis smoking in frequent and occasional smokers. *Drug Testing and Analysis*, 6(10), 1002–1010.
5. Vandrey R, Herrmann ES, Mitchell JM, Bigelow GE, Flegel R, LoDico C, Cone EJ. Pharmacokinetic Profile of Oral Cannabis in Humans: Blood and Oral Fluid Disposition and Relation to Pharmacodynamic Outcomes. *J Anal Toxicol*. 2017 Mar 1;41(2):83-99.
6. Verstraete AG. Detection times of drugs of abuse in blood, urine, and oral fluid. *Ther Drug Monit*. 2004 Apr;26(2):200-5.
7. Iten PX. Datenblatt Kokain. In: Iten PX, ed. *Fahren untrer Drogen–oder Medikamenteneinfluss. Forensische Interpretation und Begutachtung*. Zu"rich: Institut fu"r Rechtsmedizin der Universita"t Zu"rich, 1994:143–162
8. Cone EJ, Oyler J, Darwin WD. Cocaine disposition in saliva following intravenous, intranasal, and smoked administration. *J Anal Toxicol*. 1997; 21:465–475.
9. Cone EJ, Weddington WWJ. Prolonged occurrence of cocaine in human saliva and urine after chronic use. *J Anal Toxicol*. 1989;13:65–68.
10. Iten PX. Datenblatt Amphetamine. In: Iten PX, ed. *Fahren untrer Drogen- oder Medikamenteneinfluss. Forensische Interpretation und Begutachtung*. Zu"rich: Institut fu"r Rechtsmedizin der Universita"t Zu"rich, 1994:87–91.
11. Wan SH, Matin SB, Azarnoff DL. Kinetics, salivary excretion of amphetamine isomers, and effect of urinary pH. *Clin Pharmacol Ther*. 1978;23: 585–590.
12. Vandevenne M, Vandenbussche H, Verstraete A. Detection time of drugs of abuse in urine. *Acta Clin Belg*. 2000 Nov-Dec;55(6):323-33. doi: 10.1080/17843286.2000.11754319. PMID: 11484423.
13. Cook CE, Jeffcoat AR, Hill JM, et al. Pharmacokinetics of methamphetamine self-administered to human subjects by smoking S-(+)-methamphetamine hydrochloride. *Drug Metab Dispos*. 1993;21:717–723.
14. Schepers RJ, Oyler JM, Joseph REJ, et al. Methamphetamine and amphetamine pharmacokinetics in oral fluid and plasma after controlled oral methamphetamine administration to human volunteers. *Clin Chem*. 2003; 49:121–132.
15. Oyler JM, Cone EJ, Joseph R-EJ, et al. Duration of detectable methamphetamine and amphetamine excretion in urine after controlled oral administration of methamphetamine to humans. *Clin Chem*. 2002;48:1703–1714.