

Urine Drug Screening & Testing

Urine Drug Screens (UDS)	Urine Drug Testing (UDT)
Immunoassay screen	GC-MS or LC-MS/MS
In-office, point of care, or lab-based	Laboratory
Results within minutes	Results within hours or days
Detects some legal and illicit medications by structural class	Measures concentrations of all medications, illicit substances and metabolites
Guidance for preliminary treatment and decisions	Definitive identification and analysis
Cross-reactivity common	False positive results are rare
More false negatives	False negatives are rare
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Target Drug Screen	Potential Agents Causing False Positives
Amphetamine/Methamphetamine	Amantadine, bupropion, chlorpromazine, desipramine, dextroamphetamine, ephedrine, labetalol, MDMA, VICKS levomethamphetamine inhaler, methylphenidate, phentermine, phenylephrine, promethazine, pseudoephedrine, ranitidine, selegiline, trazodone
Benzodiazepines	Oxaprozin and sertraline
Cannabinoids	Dronabinol, efavirenz, hemp, NSAIDS, proton pump inhibitors, tolmetin
Cocaine	Coca leaf, tropical cocaine anesthetics
Opioids	Dextromethorphan, diphenhydramine, poppy seeds, quinine, quinolones, rifampin, verapamil
Phencyclidine	Dextromethorphan, diphenhydramine, doxylamine, ibuprofen, ketamine, meperidine, tramadol, and venlafaxine

**The above chart is a summary of common agents and not a comprehensive list.*

Stimulant	Detection
Dextroamphetamine (Adderall, Dexedrine, Dextrostat, Xelstryl, Zenzedi)	Amphetamine
Lisdexamfetamine (Vyvanse)	Amphetamine
Methamphetamine (Desoxyn, Crystal Meth)	Amphetamine/Methamphetamine*
Benzphetamine (Didrex)	Amphetamine
Methylphenidate (Concerta, Daytrana, Metadate, Methylin, Ritalin)	Ritalinic Acid
Dexmethylphenidate (Focalin)	Ritalinic Acid
Phentermine	Phentermine

**Further confirmatory testing of d and l isomers of methamphetamine may be required to determine if results are falsely positive due to use of over-the counter products containing l-methamphetamine*

References for Appendix 3.5: Urine Drug Screening & Testing

Moeller, K. E., Lee, K. C., & Kissack, J. C. (2008). Urine drug screening: Practical guide for clinicians. *Mayo Clinic Proceedings*, 83(1), 66–76. <https://doi.org/10.4065/83.1.66>