



CLINICAL DRUG TESTING

Alternative Sample Types for Medical Drug Monitoring

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Drug testing helps monitor patient compliance with prescribed medications and use of other non-prescribed drugs. Each drug testing sample type has benefits (✓) and challenges (X). Labcorp is proud to offer a comprehensive portfolio of medical drug monitoring tests, including options for alternative sample types to assist in monitoring patients in various clinical situations.



Urine

- ✓ Most well-established
- ✓ Non-invasive collection
- ✓ Larger sample volume
- ✓ Broadest menu of drugs
- ✓ More metabolites provide insight into patient's metabolism
- X Patient must be able to void
- X Risk of sample adulteration, dilution or substitution
- X Challenges with observed collection
- X Requires restroom

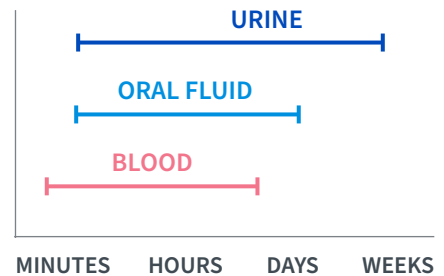
Oral Fluid

- ✓ Offers options for patients who are unable to provide urine or are on dialysis
- ✓ Non-invasive collection
- ✓ Allows for observed collection
- ✓ Adulteration less likely than with urine sample
- ✓ Can be self-collected by patient
- ✓ Does not require special facilities
- X Lack of pharmacokinetic information for most drugs on oral fluid may impede interpretation
- X Dry mouth can inhibit patient's ability to provide sample
- X Limited sample volume
- X Drugs typically present in lower concentrations
- X Recent medication or drug use may contaminate sample
- X Detection times are typically shorter than in urine

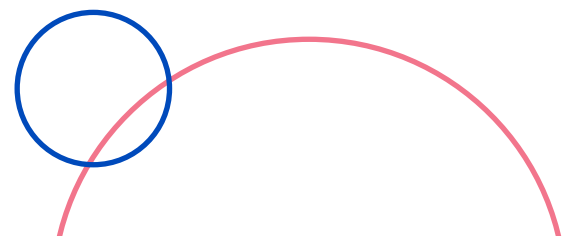
Blood

- ✓ Offers options for patients who are unable to provide urine or are on dialysis
- ✓ Allows for observed collection
- ✓ No chance for adulteration
- ✓ Established therapeutic ranges available for some drugs
- ✓ Correlation between drug concentration and clinical effect
- X Detection times are typically shorter than in urine
- X Requires specimen collection resources or access to phlebotomy personnel
- X Longer turn-around time for results

Average Drug Detection Period



Drug detection windows can vary based on the specific drug, usage history, patient metabolism, and other factors.



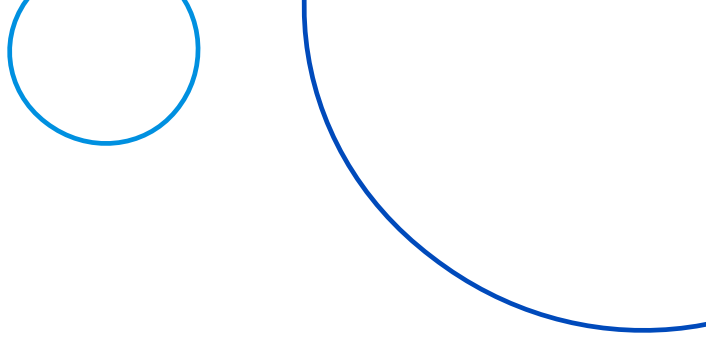
Sample Type	Blood	Blood	Oral Fluid	Urine
Test No.	700898	700902	701687	<p>For urine test options, please contact your Labcorp sales rep or refer to our online test menu at Labcorp.com</p>
Test Name	Comprehensive Blood Drug Screen with Medication Report	Drug Screen 16 with Reflex Confirmation	Drug Analysis, Comp, Oral Fluid	
Test Methodology	Immunoassay with reflex to mass spectrometry (MS) on positives	Immunoassay with reflex to mass spectrometry (MS) on positives	Liquid Chromatography Tandem Mass Spectrometry (LC/MS-MS)	
CPT Codes	80307; additional CPT per applicable reflex	80307; additional CPT per applicable reflex	80323, 80324, 80332, 80346, 80348, 80349, 80353, 80354, 80355, 80356, 80358, 80359, 80361, 80362, 80365, 80366, 80367, 80368, 80370, 80372, 80373, 83992	
Specimen	7 mL Whole Blood (3 mL minimum)	7 mL Whole Blood (3 mL minimum)	Saliva, Oral Fluid	
Container	Gray-top (sodium fluoride/potassium oxalate) tube, green-top (heparin) tube, OR lavender-top (EDTA) tube	Gray-top (sodium fluoride/potassium oxalate) tube, green-top (heparin) tube, OR lavender-top (EDTA) tube	Quantisal™ Device	

Drugs/Drug Classes Included

Opiates and Opioids				
6-Acetylmorphine	•	•	•	•
Buprenorphine	•	•	•	•
Fentanyl	•	•	•	•
Meperidine	•	•	•	•
Methadone	•	•	•	•
Opiates	•	•	•	•
Oxycodone	•	•	•	•
Propoxyphene	•	•	•	•
Tapentadol*			•	•
Tramadol	•	•	•	•
Other Opioids			•	•
Other Drug Classes				
Alcohol, Ethyl	•			•
Amphetamines	•	•	•	•
Analgesics/NSAIDS	•			•
Anesthetics (Local)	Limited			•
Anticonvulsants	•	Gabapentin only	Gabapentin Pregabalin	•
Antidepressants*	Limited		Duloxetine only	•
Antihistamines*	Limited			•
Antipsychotics*	Limited			•
Barbiturates	•	•		•
Benzodiazepines	•	•	•	•
Cannabinoid (THC)	•	•	•	•
Cocaine	•	•	•	•
Hallucinogens, Other*	Limited			•
Muscle Relaxants*	•	Carisoprodol only	Carisoprodol Cyclobenzaprine	•
Nicotine*			•	•
Phencyclidine	•	•	•	•
Sedatives/Hypnotics*	Limited		Zolpidem only	•
Sympathomimetics*	Limited			•
Additional Miscellaneous Compounds*	Limited			•

*Analysis of this drug class, or compounds within the class, is available on blood using separate test numbers

Limited: Includes some but not all drugs within the class OR drugs may be detected but may not be routinely detected at recommended therapeutic doses.



References

1. Hadland SE, Levy S. Objective Testing: Urine and Other Drug Tests. *Child Adolesc Psychiatr Clin N Am.* 2016;25(3):549-565. doi:10.1016/j.chc.2016.02.005.
2. Garg U. What Specimens Other Than Urine Are Used for the detection of Drug Abuse? *Scientific Shorts.* Feb. 21, 2012.

For more information, please contact your
Labcorp representative or visit **Labcorp.com**

