
Lab Dept: Chemistry

Test Name: DRUGS OF ABUSE SCREEN, URINE

General Information

Lab Order Codes: ABUS

Synonyms: Urine drug screen

CPT Codes: 80306 - Drug test(s), presumptive, any number of drug classes, qualitative; any number of devices or procedures, (eg, immunoassay) read by instrumented assisted direct optical observation (eg, dipstick, cups, cards, cartridges)

80307 - Drug test(s), presumptive, any number of drug classes, qualitative; any number of devices or procedures, by instrument chemistry and analyzers (eg, utilizing immunoassay [EIA, ELISA, EMIT, FPIA, IA, KIMS, RIA]), chromatography (eg, GC, HPLC)

CPT's vary: Confirmations may be added at the request of the provider at an additional charge.

Test Includes: Major metabolites of drugs of abuse (phencyclidine, benzodiazepines, cocaine metabolite, amphetamines, tetrahydrocannabinol, opiates, barbiturates, buprenorphine, tricyclic antidepressants, methadone, oxycodone, methamphetamine, fentanyl) in urine.

Logistics

Test Indications: Useful for the qualitative determination of the presence of the major metabolites of drugs of abuse in urine.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 hour or STAT (30 minutes)

Special Instructions: Confirmatory testing, for positive screening results requires a separate order. Use Add To Order to request the specific confirmatory test.

Specimen

Specimen Type:	Urine
Container:	Polypropylene Urine Cup (Children's MN standard urine cup is acceptable)
Draw Volume:	10 mL (Minimum: 1.0 mL) urine
	Note: Collection of the Minimum volume does not permit confirmatory or repeat testing. MEDTOX requires 3 mL minimum of urine for confirmatory testing.
Processed Volume:	Same as Draw Volume
Collection:	Freshly voided, random urine. No preservative. DO NOT use polystyrene containers. Store at 2-8 degrees C for up to 24 hours or while in transport from remote locations.
Special Processing:	Lab Staff: Store up to 24 hours at 2-8 degrees C if testing is delayed. Centrifuge all specimens prior to testing. Freeze the remaining sample for 7 days if there are no orders or if the screen is positive.
Patient Preparation:	None
Sample Rejection:	Unlabeled or mislabeled specimen; adulterated specimen

Interpretive

Reference Range:

Negative	
This test differentiates between positive and negative specimens at the designated cut-off concentrations. Confirmatory tests listed are available as add-on testing dependent upon remaining sample volume.	
Drug Name:	Cut-off concentration:
Phencyclidine:	25 ng/mL
Benzodiazepines:	150 ng/mL
Amphetamines:	500 ng/mL
Cocaine (Benzoylecgonine):	150 ng/mL
Tetrahydrocannabinol:	50 ng/mL

Opiates (Morphine):	100 ng/mL
Barbiturates:	200 ng/mL
Buprenorphine	10 ng/mL
Tricyclic Antidepressants	300 ng/mL
Methadone	200 ng/mL
Oxycodone	100 ng/mL
Methamphetamine	500 ng/mL
Fentanyl	1.0 ng/mL

Critical Values: Call any positive results

Limitations: This test is a qualitative screening test. Confirm positive results by another method, such as GC/HPLC if indicated.

Methodology: Single use, one step, rapid lateral flow immunoassay device (all drugs less fentanyl)

Enzymatic/colorimetric (fentanyl only)

References: Jacobs and DeMott (2001) Laboratory Test Handbook, 5th edition, Lexi-Comp, Inc., Hudson, OH, p 788

Profile-V MEDTOX Scan Reader System Quick Reference Instructions, MEDTOX Diagnostics, Inc, Burlington, North Carolina, Rev 3/2018.

Immunoanalysis SEFRIA™ Fentanyl Urine Package Insert, Immunoanalysis Corporation, Pomona, CA 31767, May 2023.

Updates:

4/27/2006: TCA (Tricyclic Antidepressants) are no longer part of this assay.
3/30/2009: Revised volume to include Pediatric Minimum.
5/11/2010: CPT update, previously reported as 80101.
2/8/2011: CPT update, quantity changed
1/3/2012: Test no longer includes TCA.
1/12/2015: CPT update
5/18/2015: CPT update
1/20/2016: CPT update
2/4/2016: CPT update
7/22/2016: pH criteria added
6/9/2017: CPT update.
9/27/2017: Updated lab processing.
4/3/2018: Updated specimen processing.
1/7/2020: New test method, updated sample volume, specimen preparation, cut off concentrations and references.
10/27/2023: Fixed broken conf. links, clarified conf. tests as add-on.
12/19/2023: Addition of 6 tests, methods, CPT
1/15/2024: Edited confirmation test codes
8/26/2024: Removed links to drug class confirmatory testing