MAYO CLINIC LABORATORIES

NEW TEST

Notification Date: October 20, 2026
Effective Date: October 29, 2026

Controlled Substance Monitoring Hybrid Plus Drug Profile, 19 Drug Classes, High-Resolution Mass Spectrometry and Immunoassay Screen, Random, Urine

Test ID: CSMHP

Useful for:

Detecting drug use involving stimulants, benzodiazepines, cocaine, opioids, and gabapentinoids.

Clinical monitoring or management of patients

This test is **not intended** for use in employment-related testing.

Profile Information:

Test ID	Reporting Name	Available Separately	Always Performed
LPCM	List patient's current medications	No	Yes
ADULT	Adulterants Survey, U	Yes	Yes
SCOCA	Cocaine IA Screen, U	No	Yes
TOPU	Targeted Opioid MS Screen, U	Yes (Order TOSU)	Yes
TABSU	Targeted Benzodiazepine Screen, U	Yes (Order TBSU)	Yes
TSIM	Gabapentinoid/Stim MS Screen, U	Yes (Order TGSU)	Yes

Methods:

ADULT: Spectrophotometry (SP)
SCOCA: Immunoassay
TABSU, TOPU, TSIM: Liquid Chromatography Tandem Mass Spectrometry, High-Resolution Accurate Mass (LC-MS/MS HRAM)

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Reference Values:
ADULTERANT SURVEY:
Cutoff concentrations
Oxidants: 200 mg/L
Nitrites: 500 mg/L

COCAINE IMMUNOASSAY SCREEN:
Negative

Screening cutoff concentrations:
Cocaine (benzoylecgonine-cocaine metabolite): 150 ng/mL

TARGETED OPIOID MASS SPECTROMETRY SCREEN:
Not detected (Positive results are reported with qualitative "Present" results)

Cutoff concentrations:
Codeine: 25 ng/mL
Codeine-6-beta-glucuronide: 100 ng/mL
Morphine: 25 ng/mL
Morphine-6-beta-glucuronide: 100 ng/mL
6-Monoacetylmorphine: 25 ng/mL
Hydrocodone: 25 ng/mL
Norhydrocodone: 25 ng/mL
Dihydrocodeine: 25 ng/mL
Hydromorphone: 25 ng/mL
Hydromorphone-3-beta-glucuronide: 100 ng/mL
Oxycodone: 25 ng/mL
Noroxycodone: 25 ng/mL
Oxymorphone: 25 ng/mL
Oxymorphone-3-beta-glucuronide: 100 ng/mL
Noroxymorphone: 25 ng/mL
Fentanyl: 2 ng/mL
Norfentanyl: 2 ng/mL
Meperidine: 25 ng/mL
Normeperidine: 25 ng/mL
Naloxone: 25 ng/mL
Naloxone-3-beta-glucuronide: 100 ng/mL
Methadone: 25 ng/mL
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP): 25 ng/mL
Tramadol: 25 ng/mL
O-desmethyltramadol: 25 ng/mL
Tapentadol: 25 ng/mL
N-desmethyltapentadol: 50 ng/mL
Tapentadol-beta-glucuronide: 100 ng/mL
Buprenorphine: 5 ng/mL
Norbuprenorphine: 5 ng/mL
Norbuprenorphine glucuronide: 20 ng/mL

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TARGETED BENZODIAZEPINE MASS SPECTROMETRY SCREEN:
Not detected (Positive results are reported with qualitative "Present" results)

Cutoff concentrations:
Alprazolam: 10 ng/mL
Alpha-hydroxyalprazolam: 10 ng/mL
Alpha-hydroxyalprazolam glucuronide: 50 ng/mL
Chlordiazepoxide: 10 ng/mL
Clobazam: 10 ng/mL
N-desmethylclobazam: 200 ng/mL
Clonazepam: 10 ng/mL
7-Aminoclonazepam: 10 ng/mL
Diazepam: 10 ng/mL
Nordiazepam: 10 ng/mL
Flunitrazepam: 10 ng/mL
7-Aminoflunitrazepam: 10 ng/mL
Flurazepam: 10 ng/mL
2-Hydroxy ethyl flurazepam: 10 ng/mL
Lorazepam: 10 ng/mL
Lorazepam glucuronide: 50 ng/mL
Midazolam: 10 ng/mL
Alpha-hydroxymidazolam: 10 ng/mL
Oxazepam: 10 ng/mL
Oxazepam glucuronide: 50 ng/mL
Prazepam: 10 ng/mL
Temazepam: 10 ng/mL
Temazepam glucuronide: 50 ng/mL
Triazolam: 10 ng/mL
Alpha-hydroxytriazolam: 10 ng/mL
Zolpidem: 10 ng/mL
Zolpidem phenyl-4-carboxylic acid: 10 ng/mL

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TARGETED GABAPENTINOID AND STIMULANT MASS SPECTROMETRY SCREEN:
Not detected (Positive results are reported with qualitative "Present" results)

Cutoff concentrations:
Methamphetamine: 100 ng/mL
Amphetamine: 100 ng/mL
3,4-Methylenedioxymethamphetamine (MDMA): 100 ng/mL
3,4-Methylenedioxy-N-ethylamphetamine (MDEA): 100 ng/mL
3,4-Methylenedioxyamphetamine (MDA): 100 ng/mL
Ephedrine: 100 ng/mL
Pseudoephedrine: 100 ng/mL
Phentermine: 100 ng/mL
Phencyclidine (PCP): 20 ng/mL
Methylphenidate: 20 ng/mL
Ritalinic acid: 100 ng/mL
Gabapentin: 500 ng/mL
Pregabalin: 500 ng/mL

Specimen Requirements:

Supplies: Urine Container, 60 mL (T313)

Collection Container/Tube: Plastic urine container

Submission Container/Tube: Plastic, 60-mL urine container

Specimen Volume: 30 mL

Collection Instructions:

1. Collect a random urine specimen.

2. Submit 30 mL in 1 plastic bottle.

3. No preservative.

Additional Information:

1. No specimen substitutions.

2. Submitting less than 30 mL may compromise the ability to perform all necessary testing.

3. STAT requests are **not accepted** for this test.

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Specimen Stability Information:

Specimen Type	Temperature	Time
Urine	Refrigerated (preferred)	14 days
	Frozen	14 days

Cautions:

It is possible that substances other than those investigated in the specificity study may interfere with the test and cause false-positive or false-negative results.

CPT Code:

80307
G0482
80326 (if appropriate for select payers)
80347 (if appropriate for select payers)
80364 (if appropriate for select payers)
Clinical Toxicology CPT Code Client Guidance

Day(s) Performed: Monday through Saturday **Report Available:** 3 to 4 days

Note:

The following referral test code(s) will become obsolete.

Test Name	Test ID	Referral Lab Code	Referral Lab
Gabapentin, Urine	FGABA	81160	Medtox Laboratories
Pregabalin, Urine	ZW80	81237	Medtox Laboratories

Questions

Contact Kristin Dragomir-Daescu, Laboratory Resource Coordinator at 800-533-1710.

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