

Overview

Useful For

The qualitative detection and identification of prescription or over-the-counter drugs frequently found in drug overdose or used with a suicidal intent

Providing, when possible, the identification of all drugs present

This test is **not useful for** drugs of abuse or illicit drug testing, including benzodiazepines, opioids, barbiturates, cocaine, and amphetamine type stimulants.

This test is **not useful for** the assessment of therapeutic compliance.

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

Chain of custody is required whenever the results of testing could be used in a court of law. Its purpose is to protect the rights of the individual contributing the specimen by demonstrating that it was under the control of personnel involved with testing the specimen at all times; this control implies that the opportunity for specimen tampering would be limited.

Additional Tests

Test Id	Reporting Name	Available Separately	Always Performed
COCH	Chain of Custody Processing	No	Yes

Special Instructions

- [Emergency/Overdose](#)

Method Name

Gas Chromatography-Mass Spectrometry (GC-MS)

NY State Available

Yes

Specimen

Specimen Type

Urine

Additional Testing Requirements

If urine creatinine is required or adulteration of the sample is suspected, also order, ADLTX / Adulterants Survey, Chain of Custody, Random, Urine.

Specimen Required

**Supplies:** Chain-of-Custody Kit (T282) containing the specimen containers, seals, and documentation is required.

**Specimen Volume:** 30 mL

**Collection Instructions:** Collect a random specimen in the container provided, seal, and submit with the associated documentation to satisfy the legal requirements for chain-of-custody testing.

Additional Information

- 1. Submitting less than 30 mL will compromise the ability to perform all necessary testing.
- 2. See [Emergency/Overdose](#).

Forms

- 1. [Chain of Custody Request](#) is included in the Chain-of-Custody Kit (T282).
- 2. If not ordering electronically, complete, print, and send a [Therapeutics Test Request](#) (T831) with the specimen.

Specimen Minimum Volume

1.1 mL

Reject Due To

All specimens will be evaluated at Mayo Clinic Laboratories for test suitability.

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Urine	Refrigerated (preferred)	14 days	
	Frozen	14 days	
	Ambient	3 hours	

Clinical & Interpretive

Clinical Information

This test looks for a broad spectrum of prescription and over-the-counter (OTC) drugs. It is designed to detect drugs that have toxic effects, as well as known antidotes or active therapies that a clinician can initiate to treat the toxic effect. The test is intended to help physicians manage an apparent overdose or intoxicated patient, to determine if a specific set of symptoms might be due to the presence of drugs, or to evaluate a patient who might be abusing these drugs intermittently. This test is not appropriate for drugs of abuse or illicit drug testing, including benzodiazepines, opioids, barbiturates, cocaine, and amphetamine type stimulants.

Drugs of toxic significance that are not detected by this test are: digoxin, lithium, and many drugs of abuse or illicit drugs, some benzodiazepines, and some opiates. For these drugs, see Mayo Clinic Laboratories' drug abuse surveys, drug screens, or individual tests.

Chain of custody is a record of the disposition of a specimen to document the personnel who collected it, who handled it, and who performed the analysis. When a specimen is submitted in this manner, analysis will be performed in such a way that it will withstand regular court scrutiny.

See [Emergency/Overdose](#) for detection limits for drugs detected in this test.

Reference Values

Drugs detected are presumptive. Additional testing may be required to confirm the presence of any drugs detected.

Interpretation

The drugs that can be detected by this test are listed in [Emergency/Overdose](#).

A detailed discussion of each drug detected is beyond the scope of this text. Each report will indicate the drugs identified. If a clinical interpretation is required, request a Clinical and Forensic Toxicology Lab consult (Mayo Clinic patients) or contact Mayo Laboratory Inquiry (Mayo Clinic Laboratories clients).

Cautions

No significant cautionary statements.

Clinical Reference

- Langman LJ, Bechtel LK, Meier BM, Holstege C: Clinical toxicology. In: Rifai N, Horvath AR, Wittwer CT, eds. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics. 6th ed. Elsevier; 2018:1294
- Baselt RC: Disposition of Toxic Drugs and Chemicals in Man. 10th ed. Biomedical Publications, 2014

Performance

Method Description

Screening is by gas chromatography-mass spectroscopy.(Unpublished Mayo method)

PDF Report

No

Day(s) Performed

Monday through Friday

Report Available

3 to 4 days

Specimen Retention Time

2 weeks

Performing Laboratory Location

Rochester

Fees & Codes

Fees

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

Test Classification

This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information

80307

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
PDSUX	Drug Scrn, Prescription/OTC, CoC, U	12286-1

Result ID	Test Result Name	Result LOINC® Value
36235	Drugs detected:	12286-1
36236	Suspect Drug	12286-1
36237	Chain of Custody	77202-0