MAYO CLINIC LABORATORIES

Test Definition: DSSX

Drug Scrn, Prescription/OTC, CoC, S

Overview

Useful For

Detection and identification of prescription or over the counter drugs frequently found in drug overdose or used with a suicidal intent

Qualitatively identifying drugs present in the specimen; quantification of identified drugs, when available, may be performed upon client request.

This test is **not intended for** therapeutic drug monitoring or compliance testing.

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

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

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

- Prescription and Over-the-Counter (OTC) Drug Screens

Method Name

Gas Chromatography-Mass Spectrometry (GC-MS)

NY State Available

Yes

Specimen

Specimen Type
Serum Red

Specimen Required
Supplies: Chain-of-Custody Kit (T282) containing the specimen seals and documentation are required

Container/Tube: Red top (serum gel/SST tubes are **not** acceptable); kit contains the specimen seals and documentation required

Preferred: One 10-mL red top

Acceptable: One 5-mL red top

Specimen Volume: 2.75 mL

Collection Instructions: Collect specimen, centrifuge and aliquot serum into plastic vial within 2 hours of collection, cap and seal, and submit with the associated documentation to satisfy the legal requirements for chain-of-custody testing.

Additional Information: See Table 1 in Prescription and Over-the-Counter (OTC) Drug Screens in Special Instructions.

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.

Reject Due To

Gross hemolysis	OK
Gross lipemia	OK
Gross icterus	OK

Specimen Minimum Volume
1.1 mL

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum Red	Refrigerated (preferred)	14 days	
	Frozen	14 days	
	Ambient		

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 most opiates.

See Prescription and Over-the-Counter (OTC) Drug Screens Table 1 in Special Instructions 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 are detected by this test are listed in Prescription and Over-the-Counter (OTC) Drug Screens Table 1 in Special Instructions.

The pharmacology of each drug determines how the test should be interpreted. A detailed discussion of each drug is beyond the scope of this text. If you wish to have a report interpreted, call 800-533-1710 and ask for a toxicology consultant.

Each report will indicate the drugs detected.

Cautions

Specimens collected in serum gel tubes are not acceptable, as the drug/analyte can absorb on the gel and lead to falsely decreased concentrations.

Clinical Reference

1. 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

2. Baselty 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

Specimen Retention Time

2 weeks

Performing Laboratory Location

Rochester

Fees & Codes

Test Classification

This test was developed, and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test 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
DSSX	Drug Scrn, Prescription/OTC, CoC, S	20785-2

Result ID	Reporting Name	LOINC®
36185	Drugs detected:	20785-2

36186	Chain of Custody	77202-0