Overview

Useful For
Aiding in the determination of compliance or identify illicit stimulant drug use

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

Method Name
Only orderable as part of profile. For more information see:

-CSMPU / Controlled Substance Monitoring Panel, Random, Urine

-TSPU / Targeted Stimulant Screen, Random, Urine

Liquid Chromatography-Tandem Mass Spectrometry, High Resolution Accurate Mass (LC-MS/MS HRAM)

NY State Available
Yes

Specimen

Specimen Type
Urine

Specimen Required
Only orderable as part of profile. For more information see:

-CSMPU / Controlled Substance Monitoring Panel, Random, Urine

-TSPU / Targeted Stimulant Screen, Random, Urine

Supplies: Aliquot Tube, 5 mL (T465)

Collection Container/Tube: Plastic urine container

Submission Container/Tube: Plastic, 5-mL tube

Specimen Volume: 3 mL

Collection Instructions:

1. Collect a random urine specimen.

2. No preservative

Specimen Minimum Volume
1 mL

Specimen Stability Information
Test Definition: TSTIM
Targeted Stimulant Screen, U

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
<th>Special Container</th>
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</thead>
<tbody>
<tr>
<td>Urine</td>
<td>Refrigerated (preferred)</td>
<td>14 days</td>
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<tr>
<td></td>
<td>Frozen</td>
<td>28 days</td>
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**Clinical and Interpretive**

**Clinical Information**
Stimulants are sympathomimetic amines that stimulate the central nervous system activity and, in part, suppress the appetite. Amphetamine and methamphetamine are also prescription drugs used in the treatment of narcolepsy and attention-deficit disorder/attention-deficit hyperactivity disorder (ADHD). Methylphenidate is another stimulant used to treat ADHD. Phentermine is indicated for the management of obesity. All of the other amphetamines (eg, methylenedioxymethamphetamine: MDMA) are Drug Enforcement Administration (DEA) scheduled Class I compounds. Due to their stimulant effects, the drugs are commonly sold illicitly and abused. Physiological symptoms associated with very high amounts of ingested amphetamine or methamphetamine include elevated blood pressure, dilated pupils, hyperthermia, convulsions, and acute amphetamine psychosis.

**Reference Values**
Only orderable as part of profile. For more information see:

- CSMPU / Controlled Substance Monitoring Panel, Random, Urine
- TSPU / Targeted Stimulant Screen, Random, Urine

Not Detected

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

**Interpretation**

If a stimulant or its corresponding metabolite is identified (present), it indicates that the patient has used the respective stimulant in the recent past (typically 1-3 days). The absence of the expected stimulant or its metabolites may indicate noncompliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, diluted or adulterated urine, or limitations of testing. The concentration of the drug must be greater than or equal to the cutoff to be reported as present. If a specific drug concentration is required, the laboratory must be contacted within two weeks of specimen collection/testing to request quantification by a second analytical technique at an additional charge.

**Cautions**

No significant cautionary statements

**Clinical Reference**


**Performance**

**Method Description**

The urine sample is diluted with internal standard and clinical laboratory reagent water and then analyzed by liquid chromatography-tandem mass spectrometry using a high resolution-accurate mass orbi-trap detector.(Unpublished Mayo method)
PDF Report
No

Day(s) Performed
Monday through Friday

Report Available
2 to 5 days

Specimen Retention Time
14 days

Performing Laboratory Location
Rochester

Fees and 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 Regional Manager. 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. This test has not been cleared or approved by the U.S. Food and Drug Administration.

CPT Code Information
80326

(G0480 if appropriate)

LOINC® Information

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<tr>
<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC Value</th>
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<tbody>
<tr>
<td>TSTIM</td>
<td>Targeted Stimulant Screen, U</td>
<td>In Process</td>
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<table>
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<td>Methylphenidate</td>
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<td>Ritalinic acid</td>
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