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## Overview

### Useful For

Detecting drug use involving barbiturates, cocaine, and tetrahydrocannabinol

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

### Testing Algorithm

Testing begins with screening tests for drugs of abuse including barbiturates, cocaine, and tetrahydrocannabinol.

Positive results can be confirmed and quantitated by definitive methods (gas chromatography-mass spectrometry for barbiturates, cocaine and metabolites, and tetrahydrocannabinol metabolite) at an additional charge.

### Method Name

Only orderable as part of profile. For more information see CSMHU / Controlled Substance Monitoring Hybrid Drug Panel, 20 Drug Classes, High-Resolution Mass Spectrometry and Immunoassay Screen, Random, Urine.

Screened by Immunoassay

### NY State Available

Yes

## Specimen

### Specimen Type

Urine

### Ordering Guidance

The test does not screen for drug classes other than those listed above.

### Specimen Required

Only orderable as part of profile. For more information see CSMHU / Controlled Substance Monitoring Hybrid Drug Panel, 20 Drug Classes, High-Resolution Mass Spectrometry and Immunoassay Screen, Random, Urine.

**Container/Tube:** Plastic, 10 mL tube

**Specimen Volume:** 2 mL

### Collection Instructions:

1. Collect a random urine specimen.
2. No preservative

**Specimen Minimum Volume**

0.5 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	72 hours	

**Clinical & Interpretive****Clinical Information**

This test uses the simple screening technique that involves immunologic testing for drugs by class.

All positive immunoassay screening results can be confirmed by gas chromatography-mass spectrometry (GC-MS) and quantitated if applicable.

This assay was designed to test for the following:

- Barbiturates
- Cocaine
- Tetrahydrocannabinol

**Reference Values**

Only orderable as part of profile. For more information see CSMHU / Controlled Substance Monitoring Hybrid Drug Panel, 20 Drug Classes, High-Resolution Mass Spectrometry and Immunoassay Screen, Random, Urine.

Negative

Screening cutoff concentrations:

Barbiturates: 200 ng/mL

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

Tetrahydrocannabinol carboxylic acid: 50 ng/mL

This report is intended for use in clinical monitoring or management of patients. It is not intended for use in employment-related testing.

**Interpretation**

For information about drug testing, including estimated detection times, see [Drugs of Abuse Testing](#).

**Cautions**

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No significant cautionary statements

**Clinical Reference**

1. Physicians' Desk Reference: 60th ed. Medical Economics Company; 2006
2. Bruntman LL Lazo JS, Parker KL, eds: Goodman and Gilman's: The Pharmacological Basis of Therapeutics. 11th ed. McGraw-Hill Book Company; 2006
3. Langman LJ, Bechtel L, Meier BM, Holstege CP: Clinical toxicology In: Rifai N, Horwath AR, Wittwer CT, eds. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics. 6th ed. Elsevier; 2018:832-887
4. Jannetto PJ, Bratanow NC, Clark WA, et al: Executive summary: American Association of Clinical Chemistry Laboratory Medicine Practice Guideline-using clinical laboratory tests to monitor drug therapy in pain management patients. J Appl Lab Med. 2018 Jan 1;2(4):489-526

**Performance****Method Description**

The barbiturate, cocaine metabolite, and tetrahydrocannabinol metabolite assays are based on the kinetic interaction of microparticles in a solution as measured by changes in light transmission. In the absence of sample drug, soluble drug conjugates bind to antibody-bound microparticles, causing the formation of particle aggregates. As the aggregation reaction proceeds in the absence of sample drug, the absorbance increases. When a urine sample contains the drug in question, this drug competes with the drug derivative conjugate for microparticle-bound antibody. Antibody bound to sample drug is no longer available to promote particle aggregation, and subsequent particle lattice formation is inhibited. The presence of sample drug diminishes the increasing absorbance in proportion to the concentration of drug in the sample. Sample drug content is determined relative to the value obtained for a known cutoff concentration of drug.(Package inserts: Barbiturates. Roche Diagnostics; 11/2017; Cannabinoids. Roche Diagnostics; 11/2017; Cocaine. Roche Diagnostics; 11/2017)

**PDF Report**

No

**Day(s) Performed**

Monday through Friday

**Report Available**

Same day/1 to 2 days

**Specimen Retention Time**

14 days

**Performing Laboratory Location**

Rochester

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**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 has been cleared, approved, or is exempt by the US Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

**CPT Code Information**

80307

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
LDPU	Limited Drug Panel, 3, IA, U	69739-1

Result ID	Test Result Name	Result LOINC® Value
615289	Barbiturates	19270-8
615290	Cocaine	19359-9
615291	Tetrahydrocannabinol	19415-9