

Adulterants Survey, Random, Urine

Overview

Useful For

Assessment of possible adulteration of a urine specimen submitted for drug of abuse testing

Providing the creatinine concentration for normalization purposes

Testing Algorithm

For more information see Adulterant Survey Algorithm.

Special Instructions

Adulterant Survey Algorithm

Method Name

Spectrophotometry (SP)

NY State Available

Yes

Specimen

Specimen Type

Urine

Ordering Guidance

For situations where chain of custody is required, a Chain-of-Custody Kit (T282) is available. For chain-of-custody information, see ADLTX / Adulterants Survey, Chain of Custody, Random, Urine.

Specimen Required

Container/Tube: Plastic, 60-mL urine bottle

Specimen Volume: 1.5 mL **Collection Instructions:**

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

Additional Information: Submitting less than 1.5 mL may compromise the ability to perform all necessary testing.

Forms

If not ordering electronically, complete, print, and send a Therapeutics Test Request (T831) with the specimen.

Specimen Minimum Volume

1 mL



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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 | |
| | Ambient | 72 hours | |
| | Frozen | 14 days | |

Clinical & Interpretive

Clinical Information

Specimen adulteration is the manipulation of a sample that may cause false-negative test results for the presence of drugs of abuse. Common adulterants that may affect testing are water, soap, bleach, vinegar, oxidants, and salt. The adulteration testing includes assessment of creatinine concentration, pH, urine specific gravity, presence or absence of an oxidant, and presence or absence of nitrite.

Reference Values

Cutoff concentrations Oxidants: 200 mg/L Nitrites: 500 mg/L

Interpretation

For information see Adulterant Survey Algorithm.

Cautions

No significant cautionary statements

Clinical Reference

- 1. US Department of Health and Human Services, Substance Abuse and Mental Health Services Administration (SAMHSA). Mandatory Guidelines for Federal Workplace Drug Testing Programs. Federal Register. January 23, 2017;82(13):FR 7920. Accessed December 13, 2024. Available at www.samhsa.gov/sites/default/files/workplace/frn_vol_82_7920_.pdf
- 2. US Department of Health and Human Services, Substance Abuse and Mental Health Services Administration (SAMHSA). Drug-Free Workplace Programs: Employer Resources. Updated July 23, 2024. Accessed December 13, 2024. Available at www.samhsa.gov/workplace/resources
- 3. US Department of Health and Human Services (HHS), Substance Abuse and Mental Health Services Administration (SAMHSA). Mandatory Guidelines for Federal Workplace Drug Testing Programs. Updated October 12, 2023. Accessed December 13, 2024. Available at

www.federal register.gov/documents/2023/10/12/2023-21734/mandatory-guidelines-for-federal-workplace-drug-testing-programs



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Performance

Method Description

All results are measured using spectrophotometry at wavelengths specified by the reagent manufacturer. The use of a refractometer may also be used in the specific gravity measurement. (Package inserts: Specimen Validity Test Creatinine. Roche Diagnostics; V3.0, 08/2015; Specimen Validity Test Nitrite. Roche Diagnostics; V3.0, 08/2018, Specimen Validity Test Oxidant. Roche Diagnostics; V 3.0, 08/2018; Specimen Validity Test pH Roche Diagnostics; V3.0, 02/2019, Specimen Validity Test Specific Gravity. Roche Diagnostics; V4.0, 08/2022)

PDF Report

No

Day(s) Performed

Monday through Saturday

Report Available

Same day/1 to 2 days

Specimen Retention Time

2 weeks

Performing Laboratory Location

Mayo Clinic Laboratories - Rochester Superior Drive

Fees & Codes

Fees

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

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.

LOINC® Information

| Test ID | Test Order Name | Order LOINC® Value |
|---------|-----------------------|--------------------|
| ADULT | Adulterants Survey, U | 58714-7 |

| Result ID | Test Result Name | Result LOINC® Value |
|-----------|------------------|---------------------|
| 20606 | Creatinine, U | 2161-8 |



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| 22312 | Specific Gravity | In Process |
|-------|------------------|------------|
| 23509 | рН | 2756-5 |
| 23511 | Oxidants | 58714-7 |
| 23510 | Nitrites | 32710-6 |
| 30914 | Comment | 48767-8 |