Test Definition: ADLTX

Adulterants Survey, CoC, U

Overview

Useful For

Assess the possible adulteration of a urine specimen submitted for drug of abuse testing, as well as for providing the urine creatinine for "creatinine normalization"

This chain-of-custody test is intended to be used in a setting where the test results can be used definitively to make a diagnosis.

Additional Tests

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

Testing Algorithm

See Adulterant Survey Algorithm in Special Instructions.

Special Instructions

- Adulterant Survey Algorithm

Method Name

Spectrophotometry (SP)

NY State Available

Yes

Specimen

Specimen Type

Urine

Specimen Required

Container/Tube: Chain-of-Custody Kit (T282) containing the specimen containers, seals, and documentation required.

Specimen Volume: 20 mL

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

Additional Information: Submitting less than 20 mL will compromise our ability to perform all necessary testing.

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

0.4 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 and Interpretive

Clinical Information

Specimen adulteration is the manipulation of a sample that may cause falsely 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.

Chain of custody is a record of the disposition of a specimen to document 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. 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.

Reference Values

Cutoff concentrations

Oxidants: 200 mg/L

Nitrites: 500 mg/L

Interpretation

See Adulterant Survey Algorithm in Special Instructions.

Cautions

No significant cautionary statements

Clinical Reference

1. MRO Guidance for Interpreting Specimen Validity Test Results. Washington, DC: Office of the Secretary of Transportation, US Department of Transportation, September 28, 1998. Memorandum

2. Substance Abuse and Mental Health Services Administration (SAMHSA) Division of Workplace Programs:

Specimen Validity Testing. In Mandatory Guidelines for Federal Workplace Drug Testing Programs. Federal Register April 13, 2004 (69 FR 19644), effective November 1, 2004. Memorandum posted: February 2005

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 insert: Creatinine plus ver 2, Specimen Validity Test Nitrite, Specimen Validity Test Oxidant, Specimen Validity Test pH, Specimen Validity Test Specific Gravity, Roche Diagnostic Corp, Indianapolis, IN)

PDF Report

No

Day(s) and Time(s) Test Performed

Monday through Saturday

Analytic Time

Same day/1 day

Maximum Laboratory Time

2 days

Specimen Retention Time

2 weeks

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 has been cleared, approved or is exempt by the U.S. 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

81005

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
ADLTX	Adulterants Survey, CoC, U	58715-4

Result ID	Test Result Name	Result LOINC Value
36121	Creatinine, U	2161-8
36122	Specific Gravity	5810-7
36123	pH	2756-5
36124	Oxidants	58714-7
36125	Nitrites	2657-5
36126	Comment	48767-8