

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"

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: Plastic, 60-mL urine bottle

Specimen Volume: 20 mL

Collection Instructions:

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

Additional Information:

1. 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, Urine.
2. Submitting less than 20 mL will compromise our 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

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.

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

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
ADULT	Adulterants Survey, U	58714-7

Result ID	Test Result Name	Result LOINC Value
20606	Creatinine, U	2161-8
22312	Specific Gravity	5810-7
23509	pH	2756-5
23511	Oxidants	58714-7
23510	Nitrites	2657-5
30914	Comment	48767-8