MAYO CLINIC LABORATORIES

Test Definition: PCPU

Phencyclidine Confirmation, Random, Urine

Overview

Useful For

Detection of drug abuse involving phencyclidine (street names: angel dust, hog, or angel hair)

Method Name

Gas Chromatography Mass Spectrometry (GC-MS) Confirmation with Quantitation

NY State Available

Yes

Specimen

Specimen Type

Urine

Ordering Guidance

1. For situations where chain of custody is required, a Chain of Custody Kit (T282) is available. For chain-of-custody testing, order PCPX / Phencyclidine Confirmation, Chain of Custody, Random, Urine
2. If urine creatinine is required or adulteration of the sample is suspected, order ADULT / Adulterants Survey, Random, Urine.
3. Additional drug panels and specific requests are available. Call 800-533-1710 or 507-266-5700.

Specimen Required

Supplies: Urine Tubes, 10 mL (T068)
Collection Container/Tube: Plastic urine container
Submission Container Tube: Plastic, 10 mL urine tube
Specimen Volume: 10 mL
Collection Instructions:
1. Collect a random urine specimen.
2. No preservative.
Additional Information:
1. No specimen substitutions.
2. STAT requests are **not** accepted for this test.

Forms

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

Specimen Minimum Volume

1.2 mL

Reject Due To

Gross hemolysis	OK
Gross icterus	OK

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Urine	Ambient	72 hours	
	Refrigerated (preferred)	14 days	
	Frozen	14 days	

Clinical & Interpretive

Clinical Information

Phencyclidine (PCP) is a drug of abuse. This compound affects diverse neural pathways and interacts with cholinergic, adrenergic, gamma-aminobutyric acid secreting, serotoninergic, opiate neuronal receptors, and gamma receptors. It has analgesic, anesthetic, and stimulatory effects, yielding bizarre behavior, ranging from depression through catatonia, euphoria, violent rage, and hallucinations. Most fatalities result from its hypertensive effect.

Diagnosis of PCP usage depends on drug screening. PCP is excreted in the urine.

Reference Values

Negative (Positive result is reported with a quantitative result.)

Cutoff concentrations by gas chromatography mass spectrometry:
Phencyclidine: 10 ng/mL

Interpretation

The presence of phencyclidine (PCP) in urine is a strong indicator that the patient has used PCP.

Cautions

Urine phencyclidine may be undetectable at alkaline pH. Urine pH must, therefore, always be recorded.

Clinical Reference

1. Schuster DI, Arnold FJ, Murphy RB. Purification, pharmacological characterization and photoaffinity labeling of sigma receptors from rat and bovine brain. Brain Res. 1995;670(1):14-28
2. Bayorh MA, Zokowska-Grojec A, Palkovits M, Kopin IJ. Effect of phencyclidine (PCP) on blood pressure and catecholamine levels in discrete brain nuclei. Brain Res. 1984;321(2):315-318
3. Baselt RC. Disposition of Toxic Drugs and Chemicals in Man. 11th ed. Biomedical Publications; 2017

Performance

Method Description
The specimen is analyzed by gas chromatography mass spectrometry.(Unpublished Mayo method)

PDF Report
No

Day(s) Performed
Tuesday

Report Available
3 to 7 days

Specimen Retention Time
14 days

Performing Laboratory Location
Rochester

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 was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information
83992
G0480 (if appropriate)

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
PCPU	Phencyclidine Confirmation, U	16254-5

Result ID	Test Result Name	Result LOINC® Value
6673	Phencyclidine-by GC/MS	16254-5
21192	Phencyclidine Interpretation	69050-3
21193	Chain of Custody	77202-0