
Overview**Useful For**

Detection of drug abuse involving phencyclidine (angel dust or angel hair)

Method Name

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

NY State Available

Yes

Specimen**Specimen Type**

Urine

Advisory Information

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, Urine
2. If urine creatinine is required or adulteration of the sample is suspected, order ADULT / Adulterants Survey, 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. STATS 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	Refrigerated (preferred)	14 days	
	Frozen	14 days	
	Ambient	72 hours	

Clinical and Interpretive**Clinical Information**

Phencyclidine (PCP) is a drug of abuse. This compound affects diverse neural pathways and interacts with cholinergic, adrenergic, GABA-secreting, serotonergic, 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

Cutoff concentrations

Phencyclidine by GC-MS: <10 ng/mL

Interpretation

The presence of phencyclidine (PCP) in urine at concentrations greater than 10 ng/mL is a strong indicator that the patient has used PCP.

Cautions

Urine phencyclidine (PCP) may be undetectable at alkaline pH.

Clinical Reference

1. Baselt RC, Cravey RH: Disposition of Toxic Drugs and Chemicals in Man. Third edition. Chicago, Year Book Medical Publishers, 1989
2. Schuster DI, Arnold FJ, Murphy RB: Purification, pharmacological characterization and photoaffinity labeling of sigma receptors from rat and bovine brain. Brain Res 1995;670:14-28
3. 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;321:315-318

4. Baselt RC: Disposition of Toxic Drugs and Chemicals in Man. 11th edition. Biomedical Publications, 2017

Performance

Method Description

This specimen is analyzed by gas chromatography/mass spectrometry.(Unpublished Mayo method)

PDF Report

No

Day(s) and Time(s) Test Performed

Tuesday, Thursday; 8 a.m.

Analytic Time

2 days

Maximum Laboratory Time

8 days

Specimen Retention Time

14 days

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 was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. 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