

## Overview

### Useful For

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

### Special Instructions

- [Clinical Toxicology CPT Code Client Guidance](#)

### 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	Refrigerated (preferred)	14 days	
	Ambient	72 hours	
	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, 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 (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**

- 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
- 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
- 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

Mayo Clinic Laboratories - Rochester Superior Drive

## 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

G0480

83992 (if appropriate for select payers)

[Clinical Toxicology CPT Code Client Guidance](#)

### LOINC® Information

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

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