MAYO CLINIC LABORATORIES

# Test Definition: PCPS

Phencyclidine Confirmation, Serum

## Overview

### Useful For

Confirming drug exposure involving the stimulant phencyclidine

### Special Instructions

- Clinical Toxicology CPT Code Client Guidance

### Method Name

Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)

### NY State Available

Yes

## Specimen

### Specimen Type

Serum Red

### Ordering Guidance

Additional drug panels and specific requests are available; call 800-533-1710.

### Specimen Required

**Supplies:** Sarstedt Aliquot Tube, 5 mL (T914)
**Collection Container/Tube:** Red top (Serum gel/SST are **not acceptable**)
**Submission Container/Tube:** Plastic vial
**Specimen Volume:** 1 mL Serum
**Collection Instructions:** Within 2 hours of collection, centrifuge and aliquot serum into a plastic vial.

### Specimen Minimum Volume

Serum: 0.5 mL

### Reject Due To

| | |
|---|---|
| Gross hemolysis | OK |
| Gross lipemia | OK |
| Gross icterus | OK |

### Specimen Stability Information

| Specimen Type | Temperature | Time | Special Container |
|---|---|---|---|
| Serum Red | Refrigerated (preferred) | 28 days | |
| | Ambient | 48 hours | |
| | Frozen | 28 days | |

## Clinical & Interpretive

### Clinical Information

Phencyclidine (PCP) affects diverse neural pathways and interacts with cholinergic, adrenergic, gamma-aminobutyric acid (GABA) secreting, and serotoninergic receptors, as well as opiate neuronal receptors and gamma receptors while its principle psychoactive effects are thought to come from its inhibitory effects on the N-methyl-D-aspartate (NMDA) receptor. It has analgesic, anesthetic, and stimulatory effects, giving bizarre behavior, ranging from depression through catatonia, euphoria, violent rage, and hallucinations. Most fatalities result from its hypertensive effect.

### Reference Values

Negative
Positive results are reported with a quantitative result.

Cutoff concentrations:
Phencyclidine: 1.0 ng/mL

### Interpretation

This test will identify patients who have taken phencyclidine.

### Cautions

Specimens collected in serum gel tubes are not acceptable because the drug can absorb onto the gel and lead to falsely decreased concentrations.

### Clinical Reference

1. Langman LJ, Bechtel LK, Holstege CP. Clinical toxicology. In: Rifai N, Chiu RWK, Young I, Burnham CAD, Wittwer CT, eds. Tietz Textbook of Laboratory Medicine. 7th ed. Elsevier; 2023:chap 43
2. Baselt RC. Disposition of Toxic Drugs and Chemical in Man. 12th ed. Biomedical Publications; 2020

## Performance

### Method Description

The sample is extracted through protein precipitation, diluted, and then analyzed by liquid chromatography tandem mass spectrometry for the presence of phencyclidine.(Unpublished Mayo method)

### PDF Report

No

### Day(s) Performed

Thursday

### Report Available
3 to 9 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 |
|---|---|---|
| PCPS | Phencyclidine Confirmation, S | 3934-7 |

| Result ID | Test Result Name | Result LOINC® Value |
|---|---|---|
| 624110 | Phencyclidine | 3934-7 |