MAYO CLINIC LABORATORIES

# Test Definition: PN10X

Pain Clinic Survey 10, Chain of Custody, Random, Urine (Non-Orderable)

## Overview

### Useful For

**Only orderable as part of a profile**. For more information see PANOX / Pain Clinic Survey 10, Chain of Custody, Urine.

Detecting drug use involving amphetamines, barbiturates, benzodiazepines, cocaine, methadone, opiates, phencyclidine, and carboxy-tetrahydrocannabinol

Chain of custody is required when test results may be used in a court of law. Its purpose is to protect the rights of the individual contributing the specimen by documenting continuous personnel control of the specimen throughout collection, handling, and analysis, helping demonstrate that opportunities for specimen tampering were limited.

This test is **not intended for use** in employment-related testing.

### Reflex Tests

| Test Id | Reporting Name | Available Separately | Always Performed |
|---|---|---|---|
| AMPHX | Amphetamines Confirmation, CoC, U | Yes | No |
| COKEX | Cocaine and metabolite Conf, CoC, U | Yes | No |
| BARBX | Barbiturates Confirmation, CoC, U | Yes | No |
| MTDNX | Methadone Confirmation, CoC, U | Yes | No |
| PCPX | Phencyclidine Confirmation, CoC, U | Yes | No |
| THCX | Carboxy-THC Confirmation, CoC, U | Yes | No |
| OPATX | Opiate Confirmation, CoC, U | Yes | No |
| BNZX | Benzodiazepines Conf, CoC, U | Yes | No |

### Additional Tests

| Test Id | Reporting Name | Available Separately | Always Performed |
|---|---|---|---|
| COCH | Chain of Custody Processing | No | Yes |
| ADLTX | Adulterants Survey, CoC, U | Yes | Yes |

### Testing Algorithm

Testing begins with screening tests for drugs of abuse. Positives are confirmed and quantitated by definitive methods at an additional charge: gas chromatography mass spectrometry for barbiturates, cocaine and metabolites, methadone, and phencyclidine; liquid chromatography tandem mass spectrometry for amphetamines, benzodiazepines, opiates, and tetrahydrocannabinol metabolite.

Adulterants testing will be performed on all chain of custody urine samples as per regulatory requirements.

### Method Name

Only orderable as part of a profile. For more information see PANOX / Pain Clinic Survey 10, Chain of Custody, Random Urine.

Immunoassay

### NY State Available

Yes

## Specimen

### Specimen Type

Urine

### Specimen Required

Only orderable as part of a profile. For more information see PANOX / Pain Clinic Survey 10, Chain of Custody, Random Urine.

**Supplies:** Chain of Custody Kit (T282)
**Container/Tube: Chain-of-Custody Kit containing the specimen containers, seals, and documentation is required.**
**Specimen Volume:** 30 mL
**Collection Instructions:** Collect a random specimen without preservative in the container provided, seal, and submit with the associated documentation to satisfy the legal requirements for chain-of-custody testing.
**Additional Information:** Submitting less than 30 mL will compromise the ability to perform all necessary testing.

### Specimen Minimum Volume

20 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) | 7 days | |
| | Frozen | 14 days | |

## Clinical & Interpretive

### Clinical Information

This assay was designed to test for and confirm by gas chromatography mass spectrometry the following:
-Barbiturates
-Cocaine
-Methadone
-Phencyclidine

This assay was designed to test for and confirm by liquid chromatography tandem mass spectrometry the following
-Opiates
-Benzodiazepines
-Carboxy-tetrahydrocannabinol
-Amphetamines

Chain of custody is a record of the disposition of a specimen to document the individuals who collected, handled, and performed the analysis. When a specimen is submitted in this manner, analysis will be performed in such a way that it will withstand regular court scrutiny.

### Reference Values

Only orderable as part of a profile. For more information see PANOX / Pain Clinic Survey 10, Chain of Custody, Random Urine.

Negative
Screening cutoff concentrations:
Amphetamines: 500 ng/mL
Barbiturates: 200 ng/mL
Benzodiazepines: 100 ng/mL
Cocaine (benzoylecgonine-cocaine metabolite): 150 ng/mL
Methadone metabolite: 300 ng/mL
Opiates: 300 ng/mL
Phencyclidine: 25 ng/mL
Tetrahydrocannabinol carboxylic acid: 50 ng/mL

This report is intended for use in clinical monitoring or management of patients. It is not intended for use in employment-related testing.

### Interpretation

A positive result derived by this testing indicates that the patient has used one of the drugs detected by these techniques in the recent past.

For information about drug testing, including estimated detection times, see Drug Class Testing on MayoClinicLabs.com.

### Cautions

The test **does not screen** for drug classes other than those listed above. More comprehensive screening is available; see PDSUX / Drug Screen, Prescription/Over the Counter, Chain of Custody, Random Urine.

### Clinical Reference

1. Physician's Desk Reference (PDR). 60th edition. Medical Economics Company; 2006
2. Bruntman LL. Goodman and Gilman's: The Pharmacological Basis of Therapeutics. 11th ed. McGraw-Hill Book Company; 2006
3. 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

## Performance

### Method Description

The amphetamines, barbiturates, benzodiazepines, cocaine, methadone metabolite, opiates, phencyclidine, and tetrahydrocannabinol metabolite assays are based on the kinetic interaction of microparticles in a solution as measured by changes in light transmission. In the absence of sample drug, soluble drug conjugates bind to antibody-bound microparticles causing the formation of particle aggregates. As the aggregation reaction proceeds in the absence of sample drug, the absorbance increases. When a urine sample contains the drug in question, this drug competes with the drug derivative conjugate for microparticle-bound antibody. Antibody bound to sample drug is no longer available to promote particle aggregation, and subsequent particle lattice formation is inhibited. The presence of sample drug diminishes the increasing absorbance in proportion to the concentration of drug in the sample. Sample drug content is determined relative to the value obtained for a known cutoff concentration of drug.(Package inserts: AMPS2. Roche Diagnostics; V 4.0, 08/2024; BARB. Roche Diagnostics; V 3.0, 04/2024; THC2. Roche Diagnostics; V 4.0, 06/2024; BNZ2. Roche Diagnostics; V 3.0, 04/2024; COC2. Roche Diagnostics; V 4.0, 04/2024; OPI2. Roche Diagnostics; V 6.0, 07/2024; PCP. Roche Diagnostics; V 3.0, 10/2024; EDDP Methadone Metabolite Enzyme Immunoassay. Roche [LIN-ZHI]; V 3.0, 11/2023)

### PDF Report

No

### Day(s) Performed

Monday through Saturday

### Report Available

2 to 3 days

### Specimen Retention Time

14 days

# Test Definition: PN10X

Pain Clinic Survey 10, Chain of Custody, Random, Urine (Non-Orderable)

**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 has been cleared, approved, or is exempt by the US 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

80307

### LOINC® Information

| Test ID | Test Order Name | Order LOINC® Value |
|---|---|---|
| PN10X | Pain Clinic Survey 10, CoC | 69739-1 |

| Result ID | Test Result Name | Result LOINC® Value |
|---|---|---|
| 36253 | Amphetamines | 43983-6 |
| 36254 | Cocaine | 43984-4 |
| 36255 | Opiates | 70151-6 |
| 36256 | Phencyclidine | 14310-7 |
| 36257 | Tetrahydrocannabinol | 14312-3 |
| 36261 | Chain of Custody | 77202-0 |
| 36258 | Barbiturates | 70155-7 |
| 36259 | Benzodiazepines | 14316-4 |
| 36260 | Methadone metabolite | 41858-2 |