

# **Test Definition: BARBU**

Barbiturates Confirmation, Random, Urine

## Overview

### **Useful For**

Detecting drug abuse involving barbiturates such as amobarbital, butalbital, pentobarbital, phenobarbital, and secobarbital

#### Special Instructions

Clinical Toxicology CPT Code Client Guidance

#### Method Name

Gas Chromatography Mass Spectrometry (GC-MS)

#### NY State Available

Yes

## Specimen

Specimen Type Urine

#### **Ordering Guidance**

For situations where chain of custody is required, a Chain-of-Custody Kit (T282) is available. For chain-of-custody testing, order BARBX / Barbiturates Confirmation, Chain of Custody, Random, Urine.

Additional drug panels and specific requests are available. Call 800-533-1710 or 507-266-5700.

#### Additional Testing Requirements

If urine creatinine is required or adulteration of the sample is suspected, also order ADULT / Adulterants Survey, Random, Urine in addition to this test.

#### 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



Barbiturates Confirmation, Random, Urine

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

### Specimen Minimum Volume

5 mL

## Reject Due To

Gross	ОК
hemolysis	
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**

Barbiturates represent a class of drugs that were originally introduced as sleep inducers. Butalbital is also used to control severe headaches. Mephobarbital and phenobarbital are frequently used to control major motor (grand mal) seizures. These drugs are commonly abused as "downers" to induce sleep after an amphetamine- or cocaine-induced "high."

## **Reference Values**

Negative (Positive results are reported with a quantitative result)

Cutoff concentrations by gas chromatography mass spectrometry: Butalbital: 100 ng/mL

Amobarbital: 100 ng/mL

Pentobarbital: 100 ng/mL

Secobarbital: 100 ng/mL

Phenobarbital: 100 ng/mL

#### Interpretation

The presence of a barbiturate in urine indicates use of one of these drugs.

Most of the barbiturates are fast acting; their presence indicates use within the past 3 days.

Phenobarbital, commonly used to control epilepsy, has a very long half-life. The presence of phenobarbital in urine indicates that the patient has used the drug sometime within the past 30 days.



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## Cautions

No significant cautionary statements.

## **Clinical Reference**

Baselt RC. Disposition of Toxic Drugs and Chemicals in Man. 10th ed. Biomedical Publications; 2014
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**

Gas chromatography mass spectrometry confirmation with quantitation. (Unpublished Mayo method)

# PDF Report No

Day(s) Performed Monday, Wednesday, Friday

Report Available 3 to 5 days

Specimen Retention Time 14 days

**Performing Laboratory Location** Mayo Clinic Laboratories - Rochester Superior Drive

# Fees & Codes

#### Fees

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 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 80345 (if appropriate for select payers)



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# Clinical Toxicology CPT Code Client Guidance

## LOINC<sup>®</sup> Information

Test ID	Test Order Name	Order LOINC <sup>®</sup> Value
BARBU	Barbiturates Confirmation, U	53746-4
Result ID	Test Result Name	Result LOINC <sup>®</sup> Value
21442	Butalbital-by GC/MS	16237-0
20642	Amobarbital-by GC/MS	16239-6
20643	Pentobarbital-by GC/MS	16240-4
20644	Secobarbital-by GC/MS	16238-8
20645	Phenobarbital-by GC/MS	16241-2
20651	Barbiturates Interpretation	69050-3
20647	Chain of Custody	77202-0