

## Overview

### Method Name

Gas Chromatography/Mass Spectrometry (GC/MS)

Only orderable as a reflex test.

### NY State Available

Yes

## Specimen

### Specimen Type

Serum Red

### Specimen Required

Only orderable as a reflex test.

### Specimen Stability Information

| Specimen Type | Temperature              | Time    | Special Container |
|---------------|--------------------------|---------|-------------------|
| Serum Red     | Refrigerated (preferred) | 14 days |                   |
|               | Frozen                   | 30 days |                   |

## Clinical & Interpretive

### Reference Values

Reporting limit determined each analysis.

| <u>Test</u>         | <u>Result</u> | <u>Units</u> |
|---------------------|---------------|--------------|
| <b>Butabarbital</b> | None Detected | mcg/mL       |

Plasma concentrations of 2-3 mcg/mL produce sedation and plasma concentrations of 25 mcg/mL produce sleep in most patients. Plasma concentrations of greater than 30 mcg/mL may produce coma and plasma concentrations in excess of 50 mcg/mL are potentially lethal.

|                   |               |        |
|-------------------|---------------|--------|
| <b>Butalbital</b> | None Detected | mcg/mL |
|-------------------|---------------|--------|

A single oral 100 mcg dose resulted in a mean peak blood concentration of 2.1 mcg/mL (range, 1.7-2.6 mcg/mL) at 2 hours, with a decline to 1.5 mcg/mL (range, 1.3-1.7 mcg/mL) by 24 hours. Potentially toxic at plasma concentrations greater than 10 mcg/mL.



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|-------|---------------|---------|
| Z5292 | Phenobarbital | 60468-6 |
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