MAYO CLINIC LABORATORIES

Test Definition: FBCFS

Barbiturates Confirmation, Serum

Overview

Method Name

Only orderable as a reflex. For more information see:
FDA1S / Drugs of Abuse (10 panel) and Alcohol Screen, Serum
FD10S / Drugs of Abuse Screen, Serum

Gas Chromatography/Mass Spectrometry (GC/MS)

NY State Available

Yes

Specimen

Specimen Type

Serum Red

Specimen Required

Only orderable as a reflex. For more information see:
FDA1S / Drugs of Abuse (10 panel) and Alcohol Screen, Serum
FD10S / Drugs of Abuse Screen, Serum

Reject Due To

All specimens will be evaluated by the processing and performing laboratories for test suitability

Specimen Stability Information

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

Clinical & Interpretive

Clinical Information

Refer to www.nmslabs.com/test-catalog

Reference Values

Only orderable as a reflex. For more information see:
FDA1S / Drugs of Abuse (10 panel) and Alcohol Screen, Serum
FD10S / Drugs of Abuse Screen, Serum

Reporting limit determined each analysis.

Butabarbital: None detected
Butalbital: None detected
Pentobarbital: None detected
Secobarbital: None detected
Phenobarbital: None detected

Interpretation

Butabarbital:
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.

Butalbital:
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.

Pentobarbital:
Peak serum concentrations of 1.2-3.1 mcg/mL were produced 0.5-2.0 hours after a 100 mg oral dose and peak serum concentration of 3 mcg/mL were produced 6 min. following a 100 mg IV dose. Potentially toxic at blood concentrations greater than 10 mcg/mL.

Secobarbital:
A 3.3 mg/kg oral dose (approximately 230 mg/70 kg) produced a mean peak blood concentration of 2.0 mcg/mL (range, 1.8-2.2 mcg/mL) at 3 hours, diminishing to 1.3 mcg/mL by 20 hours and 0.8 mcg/mL by 40 hours. Potentially toxic at blood concentrations greater than 8 mcg/mL.

Phenobarbital:
Recommended serum concentration range during anticonvulsant therapy with primidone: 10-40 mcg/mL.

Performance

PDF Report

No

Performing Laboratory Location

NMS Labs

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.

CPT Code Information

80345
G0480 (if appropriate)

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FBCFS	Barbiturates Confirmation, S	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z5287	Butabarbital	18384-8
Z5288	Butalbital	82971-3
Z5290	Pentobarbital	82969-7
Z5291	Secobarbital	82968-9
Z5292	Phenobarbital	60468-6