MAYO CLINIC LABORATORIES

Test Definition: PGN

Pregabalin, Serum

Overview

Useful For
Monitoring serum pregabalin (Lyrica) concentrations, assessing compliance, and adjusting dosage in patients.

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

NY State Available
Yes

Specimen

Specimen Type
Serum

Specimen Required
Collection Container/Tube: Red top
Submission Container/Tube: Plastic vial
Specimen Volume: 1 mL
Collection Instructions:
1. Collect specimen immediately before next scheduled dose.
2. Centrifuge and aliquot serum into plastic vial within 2 hours of collection.

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

Specimen Minimum Volume
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	Refrigerated (preferred)	28 days	
	Ambient	28 days	

	Frozen	28 days	

Clinical & Interpretive

Clinical Information

Pregabalin (Lyrica) is an anticonvulsant drug used to treat partial seizures in patients and is a more potent successor to gabapentin. Pregabalin is commonly used for neuropathic pain and fibromyalgia. This test can be used by healthcare providers to assess compliance and may be clinically useful in patients with kidney failure who generally require lower dosages. Therapeutic and toxic ranges are not well defined. Therapeutic concentrations are reported to be from 2 to 5 mcg/mL, while toxicity may occur at concentrations above 10 mcg/mL.

Reference Values

2.0-5.0 mcg/mL

Interpretation

The serum concentration should be interpreted in the context of the patient's clinical response and other clinical tests. This may provide useful information in patients showing poor response, noncompliance, or adverse effects. Toxicity can occur with concentrations greater or equal to 10 mcg/mL.

Cautions

This test cannot be performed on whole blood.

Clinical Reference

1. Baselt R: Disposition of Toxic Drugs and Chemicals in Man. 10th ed. Biomedical Publications; 2014
2. Hiemke C, Bergemann N, Clement HW, et al: Consensus guidelines for therapeutic drug monitoring in neuropsychopharmacology: Update 2017. Pharmacopsychiatry, 2018 Jan;51(1-02):9-62

Performance

Method Description

Samples are extracted with analyte detection by mass spectrometry.(Unpublished Mayo method)

PDF Report

No

Day(s) Performed

Tuesday

Report Available

2 to 7 days

Specimen Retention Time

14 days

Performing Laboratory Location
Rochester

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 Regional Manager. 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. This test has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information

80366
G0480

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
PGN	Pregabalin, S	47414-8

Result ID	Test Result Name	Result LOINC® Value
65119	Pregabalin, S	47414-8