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

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)
Collection Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Submission Container/Tube: Plastic vial
Specimen Volume: 1 mL
Collection Instructions:
1. Collect specimen immediately before next scheduled dose.
2. Within 2 hours of collection, centrifuge, and aliquot serum into a plastic vial.

Forms

If not ordering electronically, complete, print, and send 1 of the following forms with the specimen:
-Therapeutics Test Request (T831)
-Neurology Specialty Testing Client Test Request (T732)

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 reportedly 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 for patients showing poor response, noncompliance, or adverse effects. Toxicity can occur with concentrations greater than 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;51(1-02):9-62

Performance

Method Description

The serum sample is diluted with an acetonitrile internal standard. The protein precipitate is centrifuged, and a portion of the supernatant is diluted with mobile phase 1 for detection by tandem mass spectrometry.(Unpublished Mayo method)

PDF Report

No

Day(s) Performed

Monday

Report Available
2 to 7 days

Specimen Retention Time
14 days

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 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
80299

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