



# 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**

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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