

## Lithium (LI)

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### TEST OVERVIEW

<b>Test Name</b>	Lithium
<b>Test Code</b>	LI
<b>Short Description</b>	Lithium

### OVERVIEW

<b>Test Name</b>	Lithium
<b>Test Code</b>	LI
<b>Category</b>	Biochemistry
<b>TAT</b>	Main Lab: , 6, 12 Hour(s) Family Site: <8hrs, <6hrs, <12hrs
<b>Specimen(s)</b>	1 x Venous blood - 5 mL Tube - Gold - SST-Serum Separator Tube 1 x - - 5 mL Tube - Red - Serum

### SPECIMEN(S)

#### SST-Serum Separator Tube

<b>Specimen Type</b>	SST-Serum Separator Tube
<b>Specimen Format</b>	Tube
<b>Specimen Colour</b>	Gold
<b>Specimen Volume</b>	5 mL
<b>Sampling Order</b>	2
<b>Origin</b>	Venous blood
<b>Collection time after baseline</b>	-
<b>Transport Temperature</b>	2-8°C
<b>Accepted Other Specimens</b>	EDTA Plasma Sodium Heparin Plasma

	Serum SST-Serum Separator Tube
<b>TAT</b>	Main Lab: , 6, 12 Hour(s) Family Site: <8hrs, <6hrs, <12hrs
<b>Test Stability</b>	Room Temp: 7 Day(s) 2–8°C: 7 Day(s)

### Serum

<b>Specimen Type</b>	Serum
<b>Specimen Format</b>	Tube
<b>Specimen Colour</b>	Red
<b>Specimen Volume</b>	5 mL
<b>Sampling Order</b>	2
<b>Origin</b>	-
<b>Collection time after baseline</b>	-
<b>Transport Temperature</b>	2-8°C
<b>Accepted Other Specimens</b>	EDTA Plasma Sodium Heparin Plasma Serum SST-Serum Separator Tube
<b>TAT</b>	Main Lab: , 6, 12 Hour(s) Family Site: <8hrs, <6hrs, <12hrs
<b>Test Stability</b>	Room Temp: 7 Day(s) 2–8°C: 7 Day(s)

## CLINICAL INFORMATION

### Lithium

<b>Methodology</b>	-
<b>Specimen Type</b>	SST-Serum Separator Tube Serum
<b>Delay before pre-treatment</b>	8
<b>Transport Temperature</b>	2-8°C
<b>Transport Stability at room temp</b>	7 Day
<b>Transport Stability at 2–8°C</b>	7 Day
<b>Haemolysis interference</b>	No

### Clinical Interest

**Lithium** is a mood stabilizer widely used to treat manic and depressive episodes and to prevent their recurrence. However, it has a narrow therapeutic window, meaning that the difference between a therapeutic dose and a toxic dose is small.

Lithium levels need to be within a specific range to be effective. For most patients, the therapeutic range is between 0.6 and 1.2

mmol/L (milliequivalents per litre). Monitoring ensures that the dose is sufficient to manage symptoms without causing toxicity.

The appropriate dose of lithium can vary between individuals due to factors like age, kidney function, and body weight. Regular blood tests help guide dose adjustments to maintain lithium levels within the therapeutic range.

**Symptoms of lithium toxicity** include nausea, vomiting, diarrhea, tremors, confusion, and in severe cases, seizures, coma, or death.

Early detection of elevated lithium levels allows for timely intervention, such as dose reduction or cessation of the drug, before serious toxicity develops.

**Interpretation of Lithium Levels:**

- **Therapeutic Range:** The generally accepted therapeutic range for lithium in the blood is 0.6 to 1.2 mmol/L, though this can vary slightly depending on the clinical situation.
- **Toxic Levels:** Levels above 1.5 mmol/L are considered potentially toxic, with levels above 2.0 mmol/L requiring urgent medical attention.
- **Timing of Blood Tests:** Lithium levels should be measured 12 hours after the last dose (known as a "trough" level) to ensure an accurate assessment of the steady-state concentration.

## PATIENT INFORMATION

**Clinical Information Required**

Monitoring as part of treatment  
Drug name  
Frequency  
Date of last medication taken  
-  
Time of last medication taken

**Patient Collection Notes**

It is recommended that a standardised 12-hour post-dose lithium concentration be used to assess adequate therapy. Peak concentration is reached 2 to 4 hours after an oral dose.

## COMMENTS & NOTES

**LOINC Code**

334-7, 14334-7

**Outwork**

No