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<b>Lab Dept:</b>	<b>Chemistry</b>
<b>Test Name:</b>	<b>LITHIUM, Serum</b>

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***General Information***

<b>Lab Order Codes:</b>	LITH
<b>Synonyms:</b>	Li, Eskalith®, Lithobid®
<b>CPT Codes:</b>	80178 - Lithium
<b>Test Includes:</b>	Lithium, Serum in mmol/L

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***Logistics***

<b>Test Indications:</b>	For the monitoring of lithium therapy.
<b>Lab Testing Sections:</b>	Chemistry - Minneapolis
<b>Phone Numbers:</b>	MIN Lab: 612-813-6280  STP Lab: 651-220-6550
<b>Test Availability:</b>	Daily, 24 hours
<b>Turnaround Time:</b>	Within 2 hours of receipt at Minneapolis lab. Please note – additional time required for transport from off-site locations.
<b>Special Instructions:</b>	<b>Do not</b> use Lithium Heparin tube.  Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into plastic sample cup. Analyze sample immediately or store at refrigerated temperatures.

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***Specimen***

<b>Specimen Type:</b>	Blood
<b>Container:</b>	Red, marble or gold top tube preferred. (K2-EDTA or Sodium Heparin also acceptable)
<b>Draw Volume:</b>	0.6 mL blood
<b>Processed Volume:</b>	0.2 mL serum

<b>Collection:</b>	Routine venipuncture
<b>Special Processing:</b>	<b>Do not</b> use Lithium Heparin tube.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens, lithium heparin tube.

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### ***Interpretive***

<b>Reference Range:</b>	0.5 – 1.2 mmol/L (12 hour post dose/trough concentration)
<b>Critical Values:</b>	>1.5 mmol/L
<b>Limitations:</b>	N/A
<b>Methodology:</b>	Colorimetric
<b>References:</b>	Alinity Lithium Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, January 2018
<b>Updates:</b>	8/19/2024: New Assay