



# Labsmart Software

## Sample Letterhead

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yourlabname@gmail.com

<https://www.yourlabname.in/>**Mr. Saubhik Bhaumik**

Age / Sex : 27 YRS / M  
Referred by : Dr. Sachin Patil (MBBS)  
Reg. no. : 1047



1047

Registered on : 08/11/2024 01:20 PM  
Collected on : 08/11/2024  
Received on : 08/11/2024  
Reported on : 08/11/2024 01:20 PM

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**BIOCHEMISTRY**

TEST	VALUE	UNIT	REFERENCE
SERUM POTASSIUM	4.2	mmol/L	3.5 - 5.1

**Physiologic Basis**

Potassium is predominantly an intracellular cation whose plasma level is regulated by renal excretion. Elevated or depressed potassium concentrations interfere with muscle contraction.

**Interpretation**

**Increased in:** Massive hemolysis, severe tissue damage, rhabdomyolysis, acidosis, dehydration, acute or chronic renal failure, Addison disease, renal tubular acidosis type IV (hyporeninemic) hypoaldosteronism, (hyperkalemic) familial periodic paralysis, exercise (transient).

Drugs: potassium salts, potassium-sparing diuretics (eg, spironolactone, triamterene, eplerenone), nonsteroidal anti-inflammatory drugs,  $\beta$ -blockers, ACE inhibitors, ACE-receptor blockers, high-dose trimethoprim-sulfamethoxazole.

**Decreased in:** Low potassium intake, prolonged vomiting or diarrhea, renal tubular acidosis types I and II, hyperaldosteronism, Cushing syndrome, osmotic diuresis (eg, hyperglycemia), alkalosis, (hypokalemic) familial periodic paralysis, trauma (transient), subarachnoid hemorrhage, genetic hypokalemic salt-losing tubulopathies such as Gitelman syndrome (familial hypokalemia-hypocalcemia-hypomagnesemia).

Drugs: adrenergic agents (isoproterenol), diuretics.

**Comments**

Spurious hyperkalemia can occur with hemolysis of a sample, delayed separation of serum from erythrocytes, prolonged fist clenching during blood drawing, and prolonged tourniquet placement. Very high white blood cell or platelet counts may cause spurious elevation of serum potassium, but plasma potassium levels are normal.

~~~ End of report ~~~

Mr. Sachin Sharma  
DMLT, Lab Incharge

Dr. A. K. Asthana  
MBBS, MD Pathologist

NOT VALID FOR MEDICO LEGAL PURPOSE

Work timings: Monday to Sunday, 8 am to 8 pm

Please correlate clinically. Although the test results are checked thoroughly, in case of any unexpected test results which could be due to machine error or typing error or any other reason please contact the lab immediately for a free evaluation.