

Patient Name : Mr.REHAN AHMAD	Visit No : CHA250041099
Age/Gender : 14 Y 3 D/M	Registration ON : 07/Mar/2025 11:44AM
Lab No : 10138394	Sample Collected ON : 07/Mar/2025 11:45AM
Referred By : Dr.HARI OM SINGH	Sample Received ON : 07/Mar/2025 11:52AM
Refer Lab/Hosp : CHARAK NA	Report Generated ON : 07/Mar/2025 12:38PM
Doctor Advice : MAGNESIUM,CALCIUM,NA+K+	



Test Name	Result	Unit	Bio. Ref. Range	Method
SERUM CALCIUM				
CALCIUM	10.2	mg/dl	8.8 - 10.2	dapta / arsenazo III
MAGNESIUM				
SERUM MAGNESIUM	1.95	mg/dl	1.70 - 2.70	Xylidyl blue

COMMENTS:

-Magnesium is primarily an intracellular ion associated with gastrointestinal (GI) absorption and renal excretion. It is the fourth most abundant cation in the body and is second to potassium within cell. It is stored in bones, skeletal muscles and other cells and only a part in extracellular fluid. Mg²⁺ is a cofactor of many enzyme system concerned with cell respiration, glycolysis, transmembrane transport of other cations such as calcium and sodium. The activity of Na-K-ATPase pump depends on magnesium.
 -Assessment of magnesium level is used for the diagnosis and monitoring of hypomagnesemia or hypermagnesemia.
 -Magnesium deficiency leads to impairment of neuromuscular functions resulting in hyperirritability, tetany, convulsion or electrocardiographic changes. It is also associated with cardiovascular diseases such as hypertension, myocardial infarction, cardiac dysrhythmias, coronary vasospasm & premature atherosclerosis. Diabetic ketoacidosis, chronic alcoholism, malnutrition, lactation malabsorption are other conditions linked with it.
 -Increased serum magnesium concentration has been observed in dehydration, Addison's disease, rhabdomyolysis or acute or chronic renal failure.

CHARAK

[Checked By]

Print.Date/Time: 07-03-2025 14:25:49

*Patient Identity Has Not Been Verified. Not For Medicolegal



Sharma

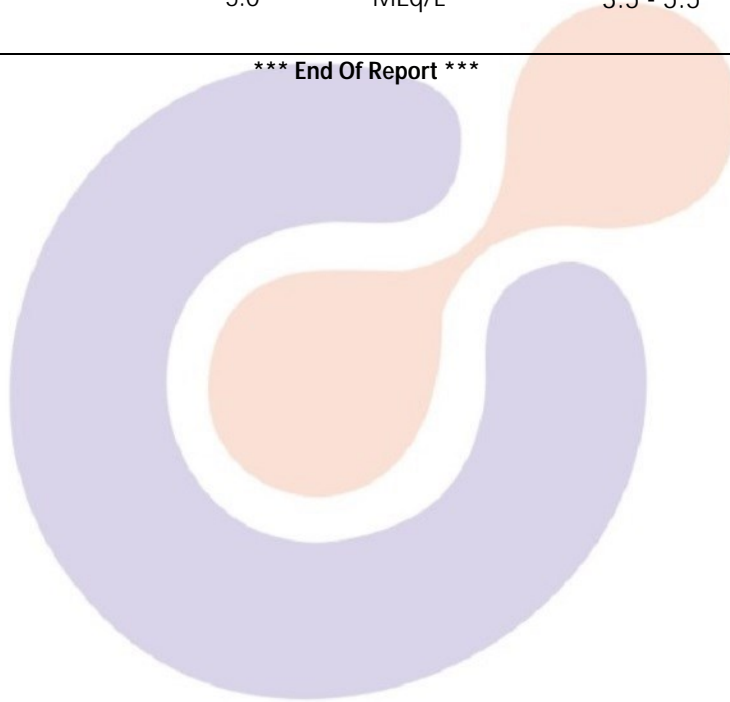
DR. NISHANT SHARMA DR. SHADAB Dr. SYED SAIF AHMAD
PATHOLOGIST PATHOLOGIST MD (MICROBIOLOGY)

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Refer Lab/Hosp : CHARAK NA	Report Generated ON : 07/Mar/2025 01:50PM
Doctor Advice : MAGNESIUM,CALCIUM,NA+K+	



Test Name	Result	Unit	Bio. Ref. Range	Method
NA+K+				
SODIUM Serum	138.0	MEq/L	135 - 155	ISE Direct
POTASSIUM Serum	5.0	MEq/L	3.5 - 5.5	ISE Direct

*** End Of Report ***



CHARAK



MC-2491

Print.Date/Time: 07-03-2025 14:25:51

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