Client	Processed By
Gurugram	**Pathkind Diagnostics Pvt. Ltd.**
Pathkind Diagnostics Pvt. Ltd.	Plot No. 55-56, Udhyog Vihar Ph-IV, Gurugram - 122015
Plot No. 55-56, Udhyog Vihar Ph-IV, Gurugram - 122015	

Name	: **Mr. BC280**	Billing Date	:	07/07/2023 12:11:44
Age	: 35 Yrs	Sample Collected on	:	10/07/2023 10:01:31
Sex	: Male	Sample Received on	:	10/07/2023 11:02:13
P. ID No.	: P1000100012394	Report Released on	:	08/07/2023 14:46:00
Accession No	: **10002304450**	Barcode No.	:	10002304450
Referring Doctor	: Self			
Referred By	:	Ref no.	:	

Report Status -   Final

Test Name	Result	Biological Ref. Interval	Unit

BIOCHEMISTRY

# Copper	99.00	70.00 - 140.00	µg/dL
Sample: Serum			
Method: Colorimetric			

Copper

Copper Interpretation	Associated conditions
Copper also is an essential trace element that is required in enzyme systems, which in turn are responsible for countless metabolic processes required to sustain life. The major sources of excess copper are: Copper water pipes, especially when attached to a water softening system, Copper IUD's, Oral contraceptives with their estrogen content.	1. Low serum copper, most often due to excess iron or zinc ingestion and infrequently due to dietary copper deficit, results in severe derangement in growth and impaired erythropoiesis. Low serum copper is also observed in hepatolenticular degeneration (Wilson disease) due to a decrease in the synthesis of ceruloplasmin and allelic variances in cellular metal ion transporters. Other disorders associated with decreased serum copper concentrations include malnutrition, hypoproteinemia, malabsorption, nephrotic syndrome & Menkes disease (kinky hair disease). 2. Copper Excess leads to Low Energy, Chronic Fatigue, muscle cramps, arthritis, headaches, depression, hypothyroidism.

1. Serum metal testing is used for the detection of recent exposure or poisoning with the toxic element. However, blood metal levels in healthy subjects can vary considerably with exposure to the particular metal present in the diet and in the environment.
2. It should be noted that low or within acceptable levels in blood / serum do not always exclude that the element is uninvolved in contributing to the patient's symptoms because certain elements may be sequestered in tissues.
3. Lower metal levels in patients on follow-up imply that the toxic element exposure is reduced in the patient's immediate environment or that the body has efficiently eliminated the toxic element.

The Test/s marked with (#) is are not accredited by NABL

10002304450 Mr. BC280

NATIONAL REFERENCE LAB
PATHKIND DIAGNOSTICS PVT. LTD.
⊙ Plot No. 55-56, Udyog Vihar, Phase-4, Gurugram
✉ care@pathkindlabs.com | ⊕ www.pathkindlabs.com
☎ Customer Care: 75000-75111

Page No: 1 of 2

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Client

Gurugram

Pathkind Diagnostics Pvt. Ltd.

Plot No. 55-56, Udhyog Vihar Ph-IV, Gurugram - 122015

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<div align="center">

Report Status - Final

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Test Name	Result	Biological Ref. Interval	Unit

Reference :
• Sample collection guidelines for trace elements in blood and urine. International union of pure and applied chemistry clinical chemistry division commission on toxicology working party. Pure & Appl.Chem., Vol. 67, Nos 8/9, pp. 1575-1608, 1995.
• Nutrient & toxic elements interpretative guide, metamatrix, USA, 2011.

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** End of Report**

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Dr. Daipayan Ghosh
Scientist

Dr. Aarti Khanna Nagpal
DNB (Pathology)
Senior Consultant

10002304450 Mr. BC280

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