



The Great Plains Laboratory, Inc.

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Requisition #:

Patient Name:

Patient Age:

Sex:

Physician Name:

Date of Collection:

Time of Collection:

Print Date:

Copper Zinc Profile

Compound	Reference Range	Units	Patient Value	Reference Interval		
				Low	Normal	High
Ceruloplasmin	1.5 - 4.5	umol/L	2.2			
Ceruloplasmin-Copper	9.0 - 27.0	umol/L	13.2			
*Copper Serum	12.0 - 23.0	umol/L	21.1			
*Zinc Serum	10.0 - 17.0	umol/L	13.4			
NonCeruloplasmin-Copper	2.3 - 6.3	umol/L	7.8			H
Copper/Zinc	0.8 - 2.0	Ratio	1.6			

*Tests performed by Mayo Reference Laboratories, Rochester, Minnesota

High nonceruloplasmin or "free" copper

High nonceruloplasmin or "free" copper is associated with Wilson's disease, a genetic disease due to a defective ATPase dependent copper transport protein, Menkes steely hair disorder, autistic spectrum disorders, extrahepatic biliary atresia, copper poisoning, chronic liver disease, primary biliary cirrhosis, Agenes syndrome, and arterioductular hypoplasia syndrome.