

Reporting Title: Labile Bound Copper, S
Performing Location: Rochester

Ordering Guidance:
If CUS1 / Copper, Serum is ordered with this test, it will be canceled, as copper testing will be automatically added as a part of this test order.

Specimen Requirements:
Patient Preparation: High concentrations of gadolinium and iodine are known to potentially interfere with most inductively coupled plasma mass spectrometry-based metal tests. If either gadolinium- or iodine-containing contrast media has been administered, **a specimen should not be collected for at least 96 hours.**

Supplies:
-Metal Free Specimen Vial (T173)
-Metal Free B-D Tube (No Additive), 6 mL (T184)
Collection Container/Tube: 6-mL Plain, royal blue-top Vacutainer plastic trace element blood collection tube
Submission Container/Tube: 7-mL Metal-free, screw-capped, polypropylene vial
Specimen Volume: 0.75 mL

- Collection Instructions:**
- For complete instructions, see [Metals Analysis Specimen Collection and Transport](#).
 - Allow the specimen to clot for 30 minutes; then centrifuge the specimen to separate serum from the cellular fraction.
 - Remove the stopper. Carefully pour specimen into metal-free, polypropylene vial, avoiding transfer of the cellular components of blood. Do not insert a pipet into the serum to accomplish transfer, and do not ream the specimen with a wooden stick to assist with serum transfer.
 - Freeze sample on dry ice immediately after pouring off the serum.

Specimen Type	Temperature	Time	Special Container
Serum	Frozen	28 days	METAL FREE

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
620895	Labile Bound Copper, S	Numeric	ng/mL	96257-1
620896	Labile Bound Copper Fraction	Alphanumeric	%	96463-5

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:
No

CPT Code Information:
82525

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
CUS1	Copper, S	1	82525	Yes	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
CUS1	616155	Copper, S	Numeric	mcg/dL	5631-7

Reference Values:

Labile Bound Copper: <105 ng/mL

Labile Bound Copper Fraction:

Males: <10.5 %

Females: <8.1 %

Copper, Total:

0-2 months: 40-140 mcg/dL

3-6 months: 40-160 mcg/dL

7-9 months: 40-170 mcg/dL

10-12 months: 80-170 mcg/dL

13 months-10 years: 80-180 mcg/dL

11-17 years: 75-145 mcg/dL

Males:

> or =18 years: 73-129 mcg/dL

Females:

> or =18 years: 77-206 mcg/dL