

Labile Bound Copper, Serum

Test ID: LBCS

Useful for:

This test is used to measure the labile bound copper in serum. Labile bound copper, also known as exchangeable copper, may be useful in the evaluation of copper related disorders, including Wilson Disease.

Reflex Tests:

Test ID	Reporting Name	Available Separately	Always Performed
CUS1	Copper, Serum	Yes	Yes

Methods:

Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)

Reference Values:

LBC Serum: <105 ng/mL

LBC Fraction, Males: <10.5 %

LBC Fraction, Females: <8.1 %

Specimen Requirements:

Collection Container/Tube: 6 mL Plain, royal blue-top Vacutainer plastic trace element blood collection tube (T184)

Submission Container/Tube: 7 mL Metal-free, screw-capped, polypropylene vial

Preferred: Metal Free Specimen Vial (T173)

Acceptable: Metal Free Specimen Vial

Specimen Volume: 750 mcL

Collection Instructions:

1. Allow the specimen to clot for 30 minutes; then centrifuge the specimen to separate serum from the cellular fraction.
2. 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.
3. Freeze sample on dry ice immediately after pouring off the serum.
4. See Trace Metals Analysis Specimen Collection and Transport for complete instructions.

Minimum Volume: 0.5 mL

Note:

Do not order CUS1 separately. A CUS1 test will be automatically reflexed when an LBCS result is generated.

Specimen Stability Information:

Specimen Type	Temperature	Time	Special Container
Serum	Frozen (preferred)	28 days	METAL-FREE

CPT Code:

82525

Day(s) Performed: Wednesday

Report Available: 7 to 14 days

Questions

Contact Rebekah Walsh, Laboratory Resource Coordinator at 800-533-1710.