

Test Definition: CRS

Chromium, Serum

Reporting Title: Chromium, S Performing Location: Rochester

Ordering Guidance:

The US Food and Drug Administration recommended test for monitoring chromium in patients with metal-on-metal implants is CRWB / Chromium, Blood.

Specimen Requirements:

Patient Preparation: High concentrations of gadolinium and iodine are known to interfere with most metal tests. If either gadolinium- or iodine-containing contrast media has been administered, a specimen should not be collected for 96 hours.

Supplies: Metal Free Specimen Vial (T173)

Collection Container/Tube: Plain, royal blue-top Vacutainer plastic trace element blood collection tube

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

Specimen Volume: 0.5 mL 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 a Mayo 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. See Metals Analysis Specimen Collection and Transport for complete instructions.

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

Result Codes:

Result ID	Reporting Name	Туре	Unit	LOINC®
8638	Chromium, S	Numeric	ng/mL	5622-6

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

Supplemental Report:

No

CPT Code Information:

82495

Reference Values:

<0.3 ng/mL

When collected by a phlebotomist experienced in ultra-clean collection technique and handled according to the



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instructions in Metals Analysis Specimen Collection and Transport, we have observed the concentration of chromium in serum to be below 0.3 ng/mL. However, the majority of specimens submitted for analysis from unexposed individuals contain 0.3 ng/mL to 0.9 ng/mL of chromium. Commercial evacuated blood collection tubes not designed for trace-metal specimen collection yield serum containing 2.0 ng/mL to 5.0 ng/mL chromium derived from the collection tube.