

Chromium Occupational Exposure, Random, Urine

Test ID: CRUO

Useful for:

Screening for occupational exposure

Methods:

CROM1: Dynamic Reaction Cell-Inductively Coupled Plasma-Mass Spectrometry (DRC-ICP-MS)

CRETR: Enzymatic Colorimetric Assay

Reference Values:

0-17 years: not established

> or =18 years: The American Conference of Governmental Industrial Hygienists (ACGIH) Biological Exposure Index (BEI) for daily occupational exposure to hexavalent chromium in urine is an increase of >9.9 mcg/L between pre-shift and post-shift urine collections. The ACGIH BEI for long- and short-term hexavalent chromium in urine is an end-of-shift concentration of >24.9 mcg/L at the end of the work week.

Specimen Requirements:

Container/Tube:	Clean, plastic urine collection container Urine Tubes, 5 mL
Preferred:	Aliquot Tube, 5mL (T465)
Acceptable:	Plastic, 5-mL urine tube or clean, plastic aliquot container with no metal cap or glued insert
Specimen Volume:	3 mL
Collection Instructions:	<ol style="list-style-type: none">1. Collect a random urine specimen.2. See Trace Metals Analysis Specimen Collection and Transport in Special Instructions for complete instructions.
Minimum Volume:	2 mL

Note:

Follow the Metals aliquoting procedure - pour do NOT pipette

Specimen Stability Information:

Specimen Type	Temperature	Time
Urine	Refrigerated (preferred)	28 days
	Ambient	14 days
	Frozen	28 days

Cautions:

Normal specimens have extremely low levels of creatinine; elevated results could easily be a result of external contamination. Precautions must be taken to ensure the specimen is not contaminated. Metal-free urine collection procedures must be followed. Refrigeration is preferred over chemical methods of preservation.

CPT Code:

82495

82570

Day(s) Setup: Monday, Wednesday, Friday, 5 pm.

Analytic Time: 1 day

Questions

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