

Reporting Title: Chromium and Cobalt, Synovial FI

Performing Location: Rochester

Ordering Guidance:

This test should only be used in individuals with chromium or cobalt implants.

Specimen Requirements:

Patient Preparation: High concentrations of gadolinium and iodine are known to 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 B-D Tube (EDTA), 6 mL (T183)

Container/Tube: Royal blue top (metal-free EDTA)

Specimen Volume: 1 mL

Collection Instructions: See [Metals Analysis Specimen Collection and Transport](#) for complete instructions.

Additional Information: Cobalt and chromium are present in the black rubber plunger seals found in most disposable syringes. As a result, synovial fluid should not be collected in these devices as contamination may occur.

Specimen Type	Temperature	Time	Special Container
Synovial Fluid	Refrigerated (preferred)	90 days	
	Ambient	90 days	
	Frozen	90 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
606352	Cobalt, Synovial FI	Numeric	ng/mL	23842-8
606353	Chromium, Synovial FI	Numeric	ng/mL	95526-0

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

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
CRSY	Chromium, Synovial FI	1	82495	Yes	Yes
COSY	Cobalt, Synovial FI	1	83018	Yes	Yes

CPT Code Information:

83018

82495

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**Reference Values:**

CHROMIUM:

0-17 years: Not established

> or =18 years: <16.9 ng/mL

COBALT:

0-17 years: Not established

> or =18 years: <19.8 ng/mL