

**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 Minimum Volume:**

0.4 mL

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®
606353	Chromium, Synovial FI <b>Also used by tests: CRSY</b>	Numeric	ng/mL	95526-0
606352	Cobalt, Synovial FI <b>Also used by tests: COSY</b>	Numeric	ng/mL	23842-8

LOINC and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

---

**Components:**

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
CRSY	Chromium, Synovial FI			Yes	Yes
COSY	Cobalt, Synovial FI			Yes	Yes

**CPT Code Information:**

83018  
82495

**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