MAYO CLINIC LABORATORIES

Test Definition: SFEC

Iron and Total Iron-Binding Capacity, Serum

Reporting Title: Iron and Total Fe Binding Cap, S
Performing Location: Rochester

Ordering Guidance:

The recommended primary test for assessment of iron deficiency is serum ferritin. Order FERR1 / Ferritin, Serum.

Additional Testing Requirements:

Although measurement of serum iron, total iron-binding capacity, and percent saturation should not be used as primary testing for iron deficiency, they may be helpful when used in conjunction with ferritin and soluble transferrin receptor, especially in patients with inflammation. Order both FERR1 / Ferritin, Serum; and STFR / Soluble Transferrin Receptor (sTfR), Serum with this test.

Specimen Requirements:

Patient Preparation:
1. Fasting (12 hours)
2. For 24 hours before collection, patient should not take iron-containing supplements.
Supplies: Sarstedt Aliquot Tube, 5 mL (T914)
Container/Tube:
Preferred: Serum gel
Acceptable: Red top
Submission Container/Tube: Plastic vial
Specimen Volume: 1 mL
Collection Instructions:
1. Draw blood before noon (preferred).
2. Within 2 hours of collection, serum gel tubes should be centrifuged.
3. Within 2 hours of collection, red-top tubes should be centrifuged, and the serum aliquoted into a plastic vial.

Specimen Minimum Volume:

0.5 mL

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	7 days	
	Frozen	180 days	

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Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
IRON	Iron **Also used by tests: FEC, HCFEC**	Numeric	mcg/dL	2498-4
TIBC	Total Iron Binding Capacity **Also used by tests: FEC, HCFEC**	Numeric	mcg/dL	2500-7
SAT	Percent Saturation **Also used by tests: FEC, HCFEC**	Numeric	%	2502-3

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
IRON	Iron	1	83540	Yes	Yes (Order IRN)
TIBC	Total Iron Binding Capacity	1	83550	Yes	No
SAT	Percent Saturation			Yes	No

Reference Values:

IRON
Males: 50-150 mcg/dL
Females: 35-145 mcg/dL

TOTAL IRON-BINDING CAPACITY
250-400 mcg/dL

PERCENT SATURATION
14-50%