

FERRITIN, PLASMA/ SERUM

Orderable - FER

Turnaround Time: 4 hours

STAT: 1 hour

Specimen:

Adult	Pediatric
4.5 mL Light Green top Vacutainer tube	0-2 years: 0.5 mL Light Green top Microtainer 2-10 years: 3 mL Light Green top Vacutainer tube
Red, Gold, or Lavender (EDTA) top tubes are also acceptable	



Laboratory:
Core Lab



Requisition:
GENERAL LABORATORY
REQUISITION



Method of Analysis:
Roche
Electrochemiluminescence



Test Schedule:
As required

Collection Information:

Minimum volume of plasma or serum required is 700 µL for adult samples or 200 µL for pediatric samples.

Reference Ranges:

Male	
Age	Range
0 – <1 month:	150.0 – 973.0 µg/L ¹
1 – <6 months:	8.5 – 580.0 0 µg/L ¹
6 months – <10 years:	14.0 – 101.0 µg/L ¹
10 – <18 years	15.1 – 201.1 µg/L ²
≥18 years:	31.3 – 408.5 µg/L ²

Female	
Age	Range
0 – <1 month:	150.0 – 973.0 µg/L ¹
1 – <6 months:	8.5 – 580.0 0 µg/L ¹
6 months – <16 years	14.0 – 101.0 µg/L ¹
16 – <51 years:	13.0 – 150.0 µg/L ³
≥51 years:	11.0 - 327.8 µg/L ²

1. Bohn MK, Higgins V, Asgari S, Leung F, Hoffman B, Macri J, Adeli, K. (2019). Paediatric reference intervals for 17 Roche cobas 8000 e602 immunoassays in the CALIPER cohort of healthy children and adolescents. Clin Chem Lab Med. 57(12):1968-1979. doi: 10.1515/cclm-2019-0707.



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2. Snozek CLH, Spears GM, Porco AB, Erb S, Kaleta EJ, Bryant SC, Baumann NA. (2021). Updated ferritin reference intervals for the Roche Elecsys immunoassay. Clin Biochem. 87:100-103. Doi: 10.1016/j.clinbiochem.2020.11.006.
3. Roche Elecsys Ferritin kit insert. 2017-04, V 2.0.

Interpretive Comments:

Starting at a hemolysis index of 100, the following comment will be given: "Interpret ferritin result with caution since hemolysis may artificially increase result."

Starting at a hemolysis index of 500, the test will be cancelled.

Comments:

Biotin may interfere with this test. Samples should not be taken from patients receiving high biotin doses (i.e. > 5 mg/day) until at least 8 hours after the last biotin administration.