

# FERRITIN, PLASMA/ SERUM

## Orderable - FER

Turn Around 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 <sup>1</sup>
1 – <6 months:	8.5 – 580.0 µg/L <sup>1</sup>
6 months – <1 year:	14.0 – 101.1 µg/L <sup>1</sup>
1 – <3 years:	6.0 – 70.0 µg/L <sup>2</sup>
3 – <6 years:	12.0 – 71.0 µg/L <sup>2</sup>
6 – <10 years:	15.0 – 81.0 µg/L <sup>2</sup>
10 – <15 years:	14.0 – 101.0 µg/L <sup>1</sup>
15 – <20 years:	20.9 – 173.0 µg/L <sup>1</sup>
20 – <60 years:	30.0 – 400.0 µg/L <sup>3</sup>

Female	
Age	Range
0 – <1 month:	150.0 – 973.0 µg/L <sup>1</sup>
1 – <6 months:	8.5 – 580.0 µg/L <sup>1</sup>
6 months – <1 year:	14.0 – 101.1 µg/L <sup>1</sup>
1 – <3 years:	7.0 – 81.0 µg/L <sup>2</sup>
3 – <6 years:	12.0 – 74.0 µg/L <sup>2</sup>
6 – <10 years:	13.0 – 92.0 µg/L <sup>2</sup>



FERRITIN,  
PLASMA/  
SERUM

10 – <15 years:	14.0 – 101.0 µg/L <sup>1</sup>
15 – <20 years:	3.9 – 114.0 µg/L <sup>1</sup>
20 – <60 years:	13.0 – 150.0 µg/L <sup>3</sup>

- 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. 2019 Aug 5. pii: /j/cclm.ahead-of-print/cclm-2019-0707/cclm-2019-0707.xml. doi: 10.1515/cclm-2019-0707. [Epub ahead of print].
- 2) Parkin PC, Hamid J, Borkhoff CM, Abdullah K, Atenafu EG, Birken CS, Maguire JL, Azad A, Higgins V, Adeli, K. (2017). Laboratory reference intervals in the assessment of iron status in young children. BMJ Paediatr Open. 1(1): e000074.
- 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.