

quantex Ferritin

Kit Configuration

P/N 3000-2328	3 x 4 mL Ferritin R1
	2 x 4 mL Ferritin R2

Reagent Preparation

P/N 3000-2328	Ferritin R1: Ready to use
	Ferritin R2: Ready to use. Invert to mix well before the first use. Avoid foam formation.
	Place the bottles into reagent rack.

In Use Stability

For optimal stability remove reagents from the system and store them at 2-8°C in the original vial securely closed.

Specimen

Serum.

Calibration

Use quantex FERRITIN standard multipoint Cat. No 3000-2223. See vial label for lot specific concentrations. The 1000 ng/mL standard should not be used for the calibration, but it may be used as prozone control. A reagent blank should be run daily before sample analysis. Recalibrate every 15 days or when a new lot of reagent is used.

Quality Control

Use quantex Ferritin/Myoglobin/IgE Control I/II Cat. No. 3000-2222.

Calculation of Analytical Results

The results concentration is automatically calculated by the instrument against the Calibration curve. For detailed description, refer to the Instrument settings and to the ILab 300 Plus Operator's Manual.

Reference Interval

Ferritin is considered normal within the following concentrations:

Children and adolescent	15 – 120 ng/mL
Men	30 – 300 ng/mL
Women under 50 years old	15 – 160 ng/mL
Women over 50 years old	20 – 300 ng/mL

Reference ranges may vary with age and sex.

References / Literatur / Bibliografia / Bibliographie / Bibliografia /

See package insert enclosed in the kit

Performance Characteristics

Limitation/Interfering Substances

Interference up to 10% is observed from lipemia for sample with 1000 mg/dL triglycerides (11.3 mmol/L). No significant interference from bilirubin up to 20 mg/dL (340 µmol/L) and hemoglobin up to concentrations of 500 mg/dL (0.30 mmol/L). For a comprehensive review of interfering substances, refer to the publication by Young *et al.*¹

Precision

	Samples/Runs	Mean (ng/mL)	CV(%)	Mean (ng/mL)	CV(%)
Within run	4/10	113.5	1.4	475.4	0.9
Total	4/10	1135	2.0	475.4	1.1

Method Comparison

Comparison Method (x)	same reagent
Comparison Instrument (x)	ILab 350
Slope	0.956
Intercept	12.9
Mean X (ng/mL)	93
Mean Y (ng/mL)	102
r	0.99
n	45

Linearity

no rerun 15 - 500 ng/mL ; with rerun 15 - 2500 ng/mL

Quantification Limit

15 ng/mL

Instrument Settings

Description: Ferritine
 Unit: ng/mL
 Decimals: 1
 LIS Code: **
 Unit Factor: 1.0
 Slope: 1.00
 Intercept: 0.00

	Reference Range							
	LOW VALUES				HIGH VALUES			
Male:	15.0	15.0	15.0	15.0	300.0	500.0	500.0	500.0
Female:	15.0	15.0	15.0	15.0	300.0	500.0	500.0	500.0
Children:	15.0	15.0	15.0	15.0	300.0	500.0	500.0	500.0
	Low Alert	Very Low	Low	Normal Values	High	Very High	High Alert	
Rerun:	No	No					No	No

Reaction Type: Fixed Time
 Direction: None
 E.P. Limit (abs): N/A
 Depl Limit (abs): 2.000
 First Limit (abs): 1.000
 Linear Factor: 0.000
 Fit: N/A

	Parameter					
	Predilut.->	S.+R. 1->	Reag. 2 ->	Reag. 3 ->	Incubation ->	Read
Times (sec):		0	0	0	26	306
Dil./Rgt. Code:		FERRIT				*) = kinetic
Lot Number:					Filter 1 (nm): 578 Filter 2 (nm): (none) Bicr. Factor: 1.00	
Ratio/Vol. (ul):		310	50	0		
Rinse (ul):		0	0	0		
Sample (ul):		35				

Lin Limit. Low: 15.00
 High: 500.0
 Rerun when Over: No

RBL Min (abs): -0.5000
 Max (abs): 2.5000

Calculation Model: Standard
 Factor: N/A
 Sample Blank: No

RBL Stability (days): 15
 Calibration Stab. (days): 15
 Dinamic Controls (min): None

** Operator definable
 N/A Not applicable to this test