

quantex Ferritin



Kit Configuration

P/N 3000-2271	1 x 100 mL Ferritin R1
	3 x 7 mL Ferritin R2

Reagent Preparation

P/N 3000-2271 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 tray.

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 300-2223. 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 350 Operator 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 (11.3 mmol/L) triglycerides. 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 (mg/dL)	CV(%)
Within run	4/10	108	1.3	440	0.5
Total	4/10	108	1.9	440	1.4

Method Comparison

Comparison Method (x)	same reagent
Comparison Instrument (x)	ILab 300
Slope	0.956
y 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 - 5000 ng/mL

Minimun Detection Limit

8.3 ng/mL

Quantification Limit

15 ng/mL



Instrument Settings

Chemistry Parameters				R1			
Method	<input type="text"/>	Reagent Name	<input type="text" value="FERR"/>	Volume	<input type="text" value="190 μL"/>		
Name	<input type="text" value="FERR"/>	R2	<input type="text" value="enable"/>	Reagent Name	<input type="text" value="FERR"/>	Volume	<input type="text" value="50 μL"/>
Unit	<input type="text" value="ng/mL"/>	Wash	<input type="text" value="disable"/>	Reagent Name	<input type="text"/>		
Assay Type	<input type="text" value="End"/>	Reagent Type	<input type="text"/>	Reagent Name	<input type="text" value="Saline"/>		
Diluent	<input type="text" value="enable"/>						
Measuring Points	<input type="text" value="1 enable"/>	start	<input type="text" value="14"/>	Decimal Points	<input type="text" value="1"/>		
		end	<input type="text" value="15"/>	Normal Range	<input type="text" value="15"/>	<input type="text" value="300"/>	
	<input type="text" value="2 enable"/>	start	<input type="text" value="25"/>				
		end	<input type="text" value="26"/>				
Wave Length							
Prim	<input type="text" value="570"/>	Sec	<input type="text"/>	Technical Range (Conc)	<input type="text" value="0.0"/>	<input type="text" value="500"/>	
				mAbs/10	<input type="text" value="-30000 / 30000"/>		
Sampling Volume	<input type="text" value="30 μL"/>						
Dilution	<input type="text" value="disable"/>	RPT Wash	(R1)	<input type="text" value="Sys Water"/>			
	<input type="text" value="μL"/>		(R2)	<input type="text" value="Sys Water"/>			
Rerun (High)	<input type="text" value="30 μL"/>						
Dilution	<input type="text" value="enable"/>	Instrument Factor a	<input type="text" value="1"/>	b	<input type="text" value="0"/>		
	<input type="text" value="15 μL"/>	<input type="text" value="135 μL"/>	Stirring Speed	R1	<input type="text" value="high"/>	R2	<input type="text" value="high"/>
Rerun (Low)	<input type="text" value="35 μL"/>						

Calibration Checks

** Duplicate Limit	<input type="text" value="**"/>	mAbs/10	Sampling Method for Standards				
** Sensitivity Limit	<input type="text" value="**"/>	mAbs/10	<input checked="" type="checkbox"/>	Duplicate			
			<input type="checkbox"/>	Triplicate			
** Linearity Limit	<input type="text" value="**"/>	%					
** Prozone Limit	<input type="text" value="**"/>	upper	Blank measurement				
SL1-S	<input type="text" value="**"/>	SL1-F	<input checked="" type="checkbox"/>	Enable Reagent blank			
SL2-S	<input type="text" value="**"/>	SL2-F	<input type="text" value="None"/>				
Sens	<input type="text" value="**"/>	mAbs/10	<input checked="" type="checkbox"/>	Reagent blank measurement at calibration			
				Reagent blank (system water)			
x Absorbance Limit			<input type="text" value="**"/>	Multiplex measurement is the same as standards			
Reaction Limit	<input type="text" value="Increase"/>						
Limit	<input type="text" value="25000"/>	mAbs/10	<input type="text" value="**"/>	Reagent Blank Limit Checks			
				<input type="text" value="Duplicate limit"/>	<input type="text" value="50"/>	mAbs/10	

Calibration

Method	<input type="text"/>	Name	<input type="text" value="FERR"/>	Interval	<input type="text" value="15"/>	days
Calculation	<input type="text" value="Point to Point"/>					
	Conc	WORK	MASTER	Lot No		
S1	<input type="text" value="0"/>	<input type="text" value="7"/>			K	<input type="text" value="N/A"/>
S2	<input type="text" value="25"/>	<input type="text" value="211"/>				
S3	<input type="text" value="100"/>	<input type="text" value="873"/>				
S4	<input type="text" value="200"/>	<input type="text" value="1937"/>				
S5	<input type="text" value="500"/>	<input type="text" value="5104"/>				
S6						

Reagent Registration

Reagent Code	<input type="text" value="0183"/>						
Reagent Name	<input type="text" value="FERR"/>						
		Volume (L)	Volume (S)	Stability Check	Term		
R1	<input checked="" type="checkbox"/>	<input type="text" value="enable"/>	<input type="text" value="**"/>	mL	<input checked="" type="checkbox"/>	<input type="text" value="enable"/>	<input type="text" value="**"/>
R2	<input checked="" type="checkbox"/>	<input type="text" value="enable"/>	<input type="text" value="**"/>	mL	<input checked="" type="checkbox"/>	<input type="text" value="enable"/>	<input type="text" value="**"/>

** Operator definable N/A not applicable to this test Calibration curve is only as example

