

Ferritin Lx Reagent

Ferritin is a soluble protein with a molecular weight of about 440,000 that stores iron in spherical apoferritin. The role of ferritin is to maintain appropriate serum iron levels by storing iron in cells and exchanging iron with transferrin. Therefore, it is useful for understanding the conditions of various blood disorders as it reflects the current iron storage status.

Principle of method

When a latex reagent is made to react with a specimen, the Ferritin in the specimen and anti-human Ferritin mouse monoclonal antibody-sensitized latex in the latex reagent produce a specific antigen-antibody reaction, resulting in turbidity.

As the degree of turbidity is in proportion to the concentration of Ferritin in a specimen, the turbidity is measured optically to determine the concentration of Ferritin in a specimen.

Measurable range

5 ~ 1000 ng/ mL

Expected values

Male : 15 – 270 ng/mL

Female : 8 – 143 ng/mL

[Procedure]

Reagent 1: 150 μ L

Sample 10 μ L

Reagent 2: 50 μ L

Measurement

Wavelength

Sub: ---- nm

Main: 800nm

0

5

10 (min)

Temperature: 37 degree C

This is the standard procedure. Instrument applications are available upon request.

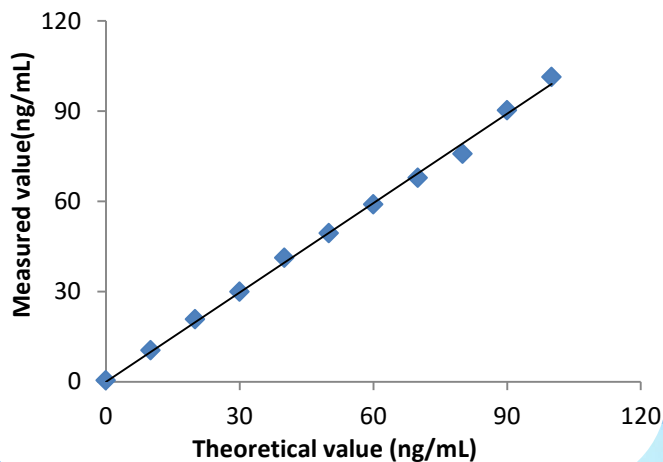
Within-run reproducibility(Low)

		Reagent Lot.		
		Lot A	Lot B	Lot C
Low Control (56.4ng/mL)	1	54.1	55.8	56.6
	2	50.7	55.6	56.0
	3	51.1	55.9	56.1
	4	51.7	56.9	56.9
	5	54.3	56.4	57.6
	6	53.6	55.1	57.3
	7	53.2	55.7	56.8
	8	54.2	55.0	58.7
	9	54.1	55.3	57.1
	10	53.9	56.0	54.4
mean (ng/mL)		53.1	55.8	56.8
CV (%)		2.6%	1.0%	2.0%

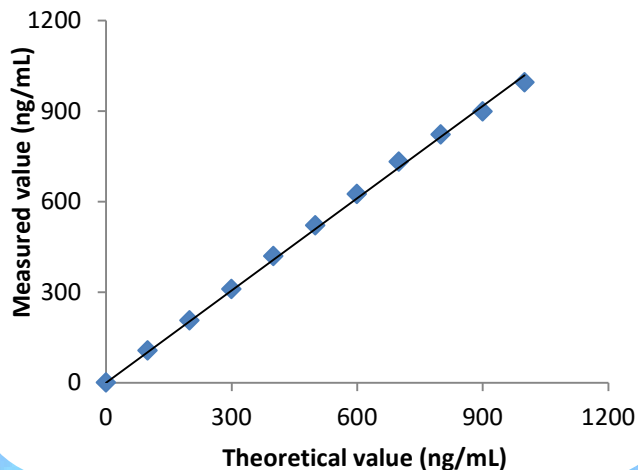
Within-run reproducibility(High)

		Reagent Lot.		
		Lot A	Lot B	Lot C
High Control (252.0ng/mL)	1	245.1	243.0	249.6
	2	243.7	241.1	251.3
	3	244.6	242.2	252.1
	4	245.5	242.2	251.0
	5	245.6	236.1	250.7
	6	243.6	242.8	252.9
	7	245.5	241.5	253.1
	8	243.6	240.7	251.8
	9	244.7	242.2	250.7
	10	245.6	243.3	251.5
mean (ng/mL)		244.8	241.5	251.5
CV (%)		0.3%	0.9%	0.4%

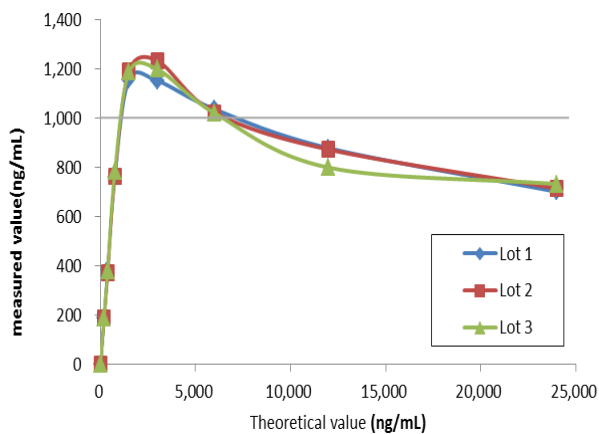
Dilution linearity (LOW)



Dilution linearity (High)



Pro-zone



Correlativity

