
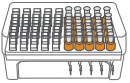
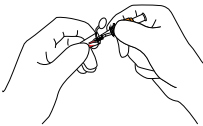



Step 1 Sample Preparation



2a Allow the test kit back to room temperature for 30 minutes before use.



2b Use the R2 with quantitative capillary to collect sample.




3c Insert the R2 into R1.

Note:

- Please update the standard curve with the barcode on the R1 cuvette if a new lot test kit is to be used.
- The capillary of the R2 should be fully filled.

Step 2 Testing



4a Insert the R1 into test channel of analyzer.

4b The analyzer will mix the sample from R2 capillary with R1 automatically.

4c The analyzer will mix the R2 and R1 automatically.

4d The analyzer will test and print the results automatically.

Calibration

The calibration values for the different lots of the kits are stored on the calibration IC card or the two-dimensional code on the cuvette. Before test the new lot of kits, read the calibration card parameters first. Or the instrument automatically scan the two-dimensional code on the cup to obtain the corresponding calibration curve during testing.

Quality control

3- level calibration system guarantee the results' reliability for each lot of test kits, including the instrument calibration, remote reagent calibration and the third party calibration.

The third party calibration applicable for:

1. The daily indoor quality control test.
2. New lots of reagent.
3. New operator training.
4. The results can not match the clinical symptoms.
5. The first use of the reagent.

If still can not be calibrated, contact the manufacture for further technical support.

Reference Value

20-250ng/mL
Recommended that each laboratory establish its own reference range.

Interpretation

The test result $\leq 20\text{ng/mL}$, may indicate iron deficiency anemia.
The test result $\geq 250\text{ng/mL}$, It may indicate hemochromatosis or liver injury.
The result only for clinical reference, comprehensive consideration should be combined with the clinical management of patients with symptoms / signs, medical history, other laboratory tests and treatment response.
All laboratory tests depend on random errors. If the test results are in doubt, or if they do not match the clinical symptoms, re-test the sample or confirm the results with other methods.

Limitations

Hemoglobin $\leq 5\text{g/L}$, bilirubin $\leq 300\mu\text{mol/L}$, triglyceride $\leq 10\text{mmol/L}$, no effect on the determination.

Performance Characteristics

1. linear range: $10\text{ng/mL} \sim 1000\text{ng/mL}$, $r \geq 0.990$
The linear deviation in the range of $[10 \sim 50]\text{ng/mL}$ should not exceed $\pm 5\text{ng/mL}$,
The linear deviation in the range of $(50 \text{ to } 1000)\text{ng/mL}$ should not exceed $\pm 10\%$.
2. Blank limit: no more than 5ng/mL
3. Precision
Test the control material by Ferritin Test Kit 2 times per day for 20 days ($n=80$) according to EP5-A2 of CLSI.

The data as below:

a.

HP-083/4-II POCT Immunoassay System					
Sample	Mean ng/mL	Within-Run		Between-Run	
		S.D.	%C.V.	S.D.	%C.V.
Control 1	30.1	1.10	3.7	1.24	4.1
Control 2	112.7	5.84	5.2	4.20	3.7
Control 3	390.0	13.04	3.3	19.77	5.1

b.

HP-AFS/3 Automatic Immunoassay System					
Sample	Mean ng/mL	Within-Run		Between-Run	
		S.D.	%C.V.	S.D.	%C.V.
Control 1	31.2	1.11	3.6	1.18	3.8
Control 2	108.1	5.11	4.7	5.37	5.0
Control 3	395.2	14.43	3.7	11.00	2.8

c.

HP-AFS/1Automatic Immunoassay System					
Sample	Mean ng/mL	Within-Run		Between-Run	
		S.D.	%C.V.	S.D.	%C.V.
Control 1	29.3	1.25	4.3	0.95	3.2
Control 2	113.2	5.32	4.7	5.57	4.9
Control 3	402.0	13.53	3.4	14.79	3.7

4. Methodology comparison
Compared to FER LIA (x) by test the same serum sample, the relative data as below:

HP-AFS/3 Automatic Immunoassay System				
Site No.	Sample Type	No.of Assays	Regression Line	Coefficient correlation
1	Serum	50	$Y=0.97X+0.08$	0.94














The concentration of sample is about $10\text{ng/mL} \sim 1000\text{ng/mL}$.

Precautions

⚠ Attention:
Only for in vitro diagnostic.
Only for professional use.
All samples and reactive wastes are treated as sources of infection.
Do not use the kits beyond shelf life.
Do not mix different batches of reagents.
The experiment environment temperature is $18 \sim 25^\circ\text{C}$, humidity is $40 \sim 60\%$ is recommended.

⚠ Warning:
To avoid error, do not forced to take out the cuvette from the device. Follow the device operation manual strictly, If the problem cannot be solved, contact the manufacturer for further technical support.

SYMBOLS USED ON LABELS

Symbol	Usage	Symbol	Usage
	Use-By date		Do not freeze
	Batch code		Biological risks
	Manufacturer		Do Not Reuse
	Temperature Limit		
	Contains sufficient for $<n>$ tests		
	Do not use if package is damaged		
	Consult Instructions for use		
	Keep Away from Sunlight		
	In Vitro Diagnostic Medical device		
	Authorized Representative in the European Community		

References

1. WANG Tianju, QING Zhizhi. The role of myeloperoxidase in cardiovascular diseases[J]. Journal of Practical Preventive Medicine, 2009, 16(2): 623-625.

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尺寸:24*25cm展开尺寸,横向三折页再垂直方向两次对折