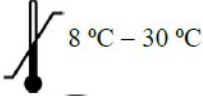


TEST FOR FERRITIN

Test4Fe

RAPID ONE STEP DETECTION OF FERRITIN

PACKAGE INSERT – READ BEFORE USE



Cat # NSFE-QN-25

INTENDED USE:

Test4Fe is a rapid immunoassay for the quantitative detection of ferritin levels in human blood.

This product is meant for professional use only. This assay provides a preliminary screening result. The performance characteristics have not been established in a pediatric population.

PRINCIPLE:

Test4Fe is based on the sandwich assay. Anti-Ferritin monoclonal antibody conjugated gold nanoparticles are immobilized on conjugate pad. The second antibody is coated onto the nitrocellulose membrane. When sample is introduced, first antibody conjugated to gold nanoparticles binds to ferritin in the sample and ferritin-antibody-gold complex moves to test line where second antibody will capture the complex and a red colored test line appears. The intensity of the colored test line is directly proportional to the concentration of ferritin in blood/serum. A control line is present in the test window to work as procedural control.

MATERIALS PROVIDED:

Each package contains:

1. 25 Test4Fe individually packed test devices
2. 25 blood lancets
3. 25 transfer pipettes
4. 1 Buffer Vial containing Chase Buffer (5.0 mL)
5. 1 Package Insert and 1 RFID card

MATERIALS REQUIRED BUT NOT PROVIDED:

- Timer or clock
- Cube reader

PROCEDURE:

1. Remove the cassette from the sealed pouch and place it on a hard flat surface with the view window facing up. Ensure cassette and kit components are at room temperature before using.



2. Twist the lancet cap off and press into tip of finger until an audible click is heard. Gently squeeze the bulb of the pipette and then touch the blood drop with the tip until blood reaches the black mark (10 µL). Place sample directly into the sample well by releasing pressure from bulb and careful not push the tip in membrane with force.



3. Add 2 full drops of Chase Buffer into the buffer well (Do not move the cassette after addition of buffer).



4. Let the cassette sit for 10 minutes and immediately read your results by cube reader as shown below.



TEST RESULTS AND REPORT:

1. After 10 minutes, place the adapter on top of the test cassette with the ridge on bottom right as shown with arrow.



- Place the cube reader on top of the adapter correctly. Press the black button on reader, it will display "ON".



- Press the button again and display will read "RFID."



- Place the Lot Specific RFID card on the cube reader.



- Following a beep signal, "TEST" is displayed.



- Press the black button, it will display "RUN."



- The results will scroll horizontally on the display screen in ng/mL. Note the results.



- The reader will switch off automatically after 50 seconds.

PERFORMANCE CHARACTERISTICS:

Sensitivity: The sensitivity was determined based on 20 measurements of individual ferritin-free samples, calculated by subtracting 3 times of standard deviation from the mean. The sensitivity is 20 ng/mL.

Detection Range: The Detection range of Test4Fe is from 20ng/mL to 650 ng/mL.

Spiking Studies: Low, mid and high level Ferritin samples were spiked with Ferritin and estimated with Test4Fe. Percentage recovery was between 96 and 106%

Accuracy: The accuracy of test was determined using 20 blood samples in comparison with ELISA assay. The comparison result showed a correlation coefficient of 96%.

Precision: Precision measurements were performed to evaluate repeatability. Precision studies were conducted using the samples that had low, mid and high Ferritin values. Each sample was tested twice over a period of five days. Precision was found to be less than 10% CV at all the three levels tested. The inter-assay variation was calculated as 8.3 % by assaying the test samples over a period of fourteen days, and intra assay variation was found to be 5.6% by assaying 10 replicates on the same day.

Specificity: No interference and cross reactivity was observed with added high concentrations of Vitamin A, Vitamin D, bilirubin, triglycerides and cholesterol.

PRECAUTIONS:

For *in vitro* diagnostic use only.

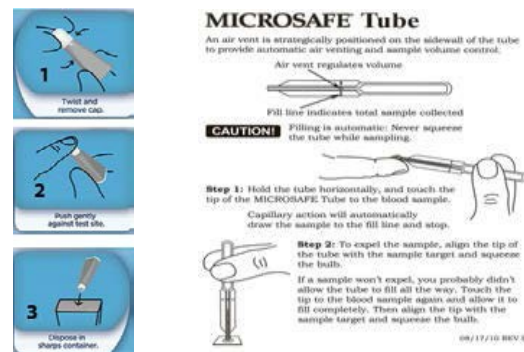
- Reagents and device must be at room temperature (8 °C – 30 °C).
- Do not use if test device packaging is open or damaged.
- Do not use the product beyond expiration date. Handle all specimens as potentially infectious.
- Read test results at 10 minutes. Results may deteriorate and may not be consistent after 10 minutes.


STORAGE AND STABILITY:

The test device should be stored at 8 °C – 30 °C and will be stable until the expiration date. The product is humidity sensitive and should be used immediately after being open.

INSTRUCTIONS TO USE LANCET AND BLOOD TRANSFER PIPETTE:

Alternative lancet and pipette can be used



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