BIOBASE

Transferrin (TRF) Test Kit

(Immunoturbidimetry)

【NAME】

Transferrin (TRF) Test Kit (Immunoturbidimetry)

【INTEND USE】

This reagent is intended for the in vitro quantitative determination of Transferrin (TRF) in human serum. Transferrin (TRF) can prevent iron poisoning and loss through the kidneys.after connecting the iron. Raising its level common in iron deficiency, pregnancy, estrogen control, and fat-kidney disease. Reducing the levels common in genetic defects, control of testosterone, infection, acute inflammation, certain types of glomerulonephritis, hemoglobin deletion, malnutrition and acute malaria.

【METHODOLOGY】

Sample’s transferrin react with reagent’s human transferrin antibody rapid formation antigen-antibody complexes in the buffer solution, the reaction liquid appear turbidity. When the antibodies excess in the reaction liquid, the formation of the composites increase with the increase of amount of antigen, the reaction liquid turbidity also increases, use end point method to monitoring the absorbance changes in 340nm, compared with the calibration, can calculate the unknown specimen transfer ferritin levels

【STABILITY AND STORAGE】

Unopened, avoid light preservation in 2 ~ 8 ℃, valid for 12 months;

Opened, avoid contamination preservation in 2 ~ 8 ℃, valid for 1 month.

Reagent is not allowed frozen.

【SPECIMEN COLLECTION AND HANDLING】

Serum,blood clots should be removed from specimen by centrifugal separation.

Sample stability:2～8℃ preservation stability in 1 week .

Sample’s chyle≤0.3%,bilirubin≤500uM, heparin sodium≤100U/mL、hemoglobin≤5g/L,VC≤0.5g/L not observed obvious interference.

【APPLICABLE INSTRUMENT】

Fully automatic biochemical analyzer.

【SYSTEM PARAMETERS】

The following system parameters are recommended. Individual instrument applications are available upon request from the Technical Support Group

Temperature	37° C
Cuvette light path	1.0cm
Primary Wavelength	340 nm
Secondary Wavelength	700nm
Assay Type	Two Point End
Direction	Increase
Sample : Reagent 1: Reagent 2 Ratio	3:240:80
eg : Sample Vol.	3 μL
Reagent1 Vol.	240 μL
Reagent2 Vol.	80 μL
Linearity	0～400mg/dL
Testing	Deducting the reagent blank

【ATTENTION】

1.This product is only used for in vitro diagnostic. If touched with the human body, use a lot of water washing

2.If there is no specified wavelengths in the instrument, select wavelength close to numerical input.

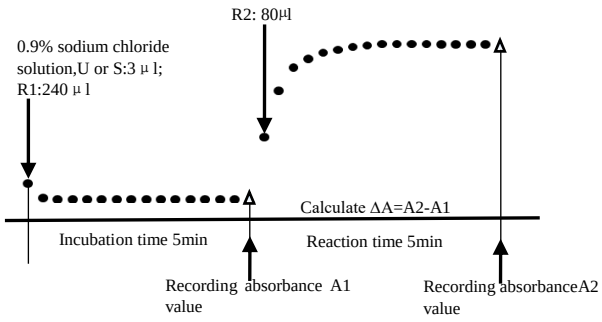
3.According to medical waste disposal method,deal with contact test specimen tube apparatus.

4.Other instrument model should verification by the lab, if you need the details parameters please contact us.

5.Different batches reagents cannot mix, when replacing reagents batch number, please calibration again!!

【OPERATION STEPS】

R1: Reagent 1 R2: Reagent 2 S: Calibrator U: Sample



【CALCULATION】

$$\text{TRF sample concentration} = \frac{\text{Sample}\triangle A}{\text{Calibration}\triangle A} \times \text{Calibration Concentration}$$

According to the calibration requirements, with different levels of calibration solution, together with 9 g/L sodium chloride solution as the blank. After measurement,the instrument automatic synthesize calibration curve for the calibration response quantity through the appropriate mathematical model (such as Logit/ Spline).Using TRF calibration values to calibrate instrument ,within the scope of the reportable results,the instrument directly report reliable test results.

【REFERENCE RANGE】

170 ~ 340mg/dL

By clinical trials, choose no less than 100 newborn or adults blood specimens, tested by automatic biochemical analyzer, and then processing the testing value with statistical method, calculating out the reference range.

Recommendation: The laboratory set up its own reference range!

【THE LIMITATION OF TEST RESULTS】

Transferrin (TRF) testing is just one of the standard that clinicist diagnose the patient. Clinical physicians should according to patients' bodies, history and other diagnostic program, to get comprehensive judgment.

【THE INTERPRETATION OF TEST RESULTS】

Human error, the processing of specimen, analysis instrument deviation, etc. all can affect the measurement result；When one sample deviates from the expected value too far, need to be tested again.

【PERFORMANCE INDEX】

1.Reagent blank absorbance ≤0.3,(340nm,lcm optical path).

2.Precision: repeatability CV≤6%;batch variations R≤8%.

3.Accuracy: relative deviation ≤10%.

4.Linearity range: 0～400mg/dL, r≥0.990.

5. Stability: All package reagent, non corrosive gas and avoid light, preservation in 2~8 ℃, stable 12 months.

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