BIOBASE

Apolipoprotein A1 (APOA1) Test Kit

(Immunoturbidimetry)

【NAME】

Apolipoprotein A1 (APOA1) Test Kit (Immunoturbidimetry)

【INTEND USE】

This reagent is intended for the in vitro quantitative determination of Apolipoprotein A1 (APOA1) in human serum. ApoA1 is the major structural protein of HDL, HDL represented by APOA1 is negatively correlated with the prevalence of coronary heart disease. When using total cholesterol and triglycerides to screen out coronary heart disease, in addition to the detection of lipoprotein (a) and apolipoprotein B, simultaneously the detection of APOA1 provide more information on lipid disorders, and also can replace high density lipoprotein cholesterol testing. In addition coronary heart disease patients have low APOA1, cerebrovascular patients also. ApoA1 deficiency, family clusters of low α hyperlipoproteinemia, and fish eye disease patients have very low APOA1. Family cluster of high TG in patients with hyperlipidemia have low HDL-C, but ApoA1 not necessarily low, do not increase the risk of coronary heart disease.

【METHODOLOGY】

APOA1 and super sensitized APOA1antibody latex particle reagent is reaction, And generate immune complex.Detection of the turbidity of change at 340nm, the degree of change is proportional to the APOA1 levels in the samples.The sample concentation can be calculated by the standard curve.

【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】

It is best to fresh Serum, heparin anticoagulant blood plasma.

Sample stability:15～25℃preservation stability in 3 days.

2～8℃ preservation stability in 1 week .

Do not use the contaminated samples. Specimens cannot be repeated freezing and thawing.

When the ascorbic acid concentration of sample≤1704 μ mol/L;bilirubin concentrations≤598 μ mol/L,hemoglobin hemoglobin≤5.00g/L, TG≤ 22.6mmol/L,was not observed clearly disturbance.

【APPLICABLE INSTRUMENT】

Fully automatic biochemical analyzer.

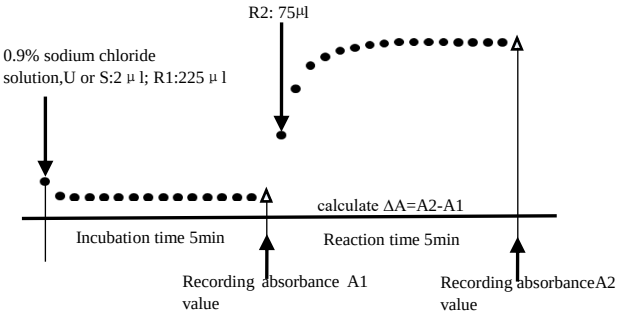
【SYSTEM PARAMETERS】

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	2:225:75
eg : Sample Vol.	2 μL
Reagent1 Vol.	225 μL
Reagent2 Vol.	75 μL
Linearity	0～2.5g/L
Testing	Deducting the reagent blank

【OPERATION STEPS】

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



【CALCULATION】

ΔAbs = [（A2- A1）Calibrator or Sample] － [（A2- A1）Blank]

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 APOA1 calibration values to calibrate instrument ,within the scope of the reportable results,the instrument directly report reliable test results.

【REFERENCE RANGE】

Female: 1.20～1.90g/L Male:1.20～1.76g/L

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】

Apolipoprotein A1 (APOA1) 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≤5%;batch variations R≤8%.

3.Accuracy: relative deviation ≤10%.

4.Linearity range: 0～2.50g/L,r≥0.990.

【ATTENTION】

1.Reagent contains sodium azide (toxic) preservatives, avoid contact with skin and mucous membrane.If necessary preventive measures should be taken use of reagents, reagent contact with skin and mucous membrane, please rinse with water, please go to a doctor if necessary.

2.The maximum linearity is 2.50g/L.If testing results is upper limit,dilute with 0.9% sodium chloride solution before test, results multiplied by the dilution ratio.

3.Liquid waste disposal: Suggest follow local regulations.

4.This specification is applied to the double reagent.

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

Biobase Biodustry(Shandong)Co.,Ltd

Add: Biobase Biological Industrial Park, Mingshui Economic Development Zone, Jinan, China, 250200

Tel: 0086-531-81219801/03 Fax: 0086-531-81219804