BIOBASE

Lipase (LPS) Test Kit

(Enzymatic Colorimetric)

【NAME】

Lipase (LPS) Test Kit (Enzymatic Colorimetric)

【INTEND USE】

This reagent is intended for the in vitro quantitative determination of lipase (LPS) in human serum or plasma.

【METHODOLOGY】

Use 1,2-bay of glycerin -3-glutaric acid-(6'- METHOXYRESORUFIN) -ester as substrate, here is the reaction:

1,2-bay of glycerin -3-glutaric acid-(6'- METHOXYRESORUFIN)-ester

Lipase / OH^- → 1,2-bay of glycerin + glutaric acid+ 6'- METHOXYRESORUFIN

At the 570nm wavelength, the lipase activity was determined according to the production rate of METHOXYRESORUFIN.

【STABILITY AND STORAGE】

Unopened, avoid light preservation in 2 ~ 8 ℃, valid for 12 months;
Opened, avoid light preservation in 2 ~ 8 ℃, valid for 1 month.
Reagent is not allowed frozen.

【SPECIMEN COLLECTION AND HANDLING】

Only fresh serum, heparin anticoagulant blood plasma.
Serum stability:2～8℃preservation stability in 5 days.
When the bilirubin concentration of sample≤40mg/dL, VC≤30mg/dL, hemoglobin hemoglobin≤441mg/dL, TG≤1000mg/dL 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

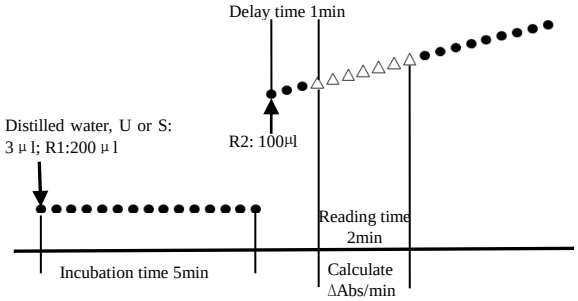
Temperature	37° C
Cuvette light path	1.0cm
Primary Wavelength	570nm
Secondary Wavelength	700nm
Assay Type	Rate Method
Direction	Increase
Sample : Reagent1 : Reagent2Ratio	3:200:100
eg : Sample Vol.	3 μL
Reagent1 Vol.	200 μL
Reagent2 Vol.	100 μL
Linearity	0～700 U/L
Testing	Deducting the reagent blank

【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 700U/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. 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】

Use the Calibrator

$$\text{Sample LPS Concentration} = \frac{\text{Sample } \Delta\text{Abs/min}}{\text{Calibrator } \Delta\text{Abs/min}} \times \text{Calibrator Concentration}$$

【REFERENCE RANGE】

5.6~60U/L

By clinical trials, choose no less than 100 women or men 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】

LPS 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≤0.5, (570nm,lcm optical path).
2. Precision: repeatability CV≤5%;batch variations R≤8%.
3. Accuracy: relative deviation ≤10%.
4. Linearity range: 0～700 U/L, r≥0.990.
5. Stability: All package reagent, non corrosive gas and avoid light, preservation in 2~8 ℃, stable 12 months.

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