BIOBASE

γ-Glutamyl Transferase (GGT/γ-GT) Test Kit
(SZASZ)

【NAME】
γ -Glutamyl Transferase (GGT/ γ -GT) Test Kit (SZASZ)

【INTEND USE】
The reagent is intended for the in vitro quantitative determination of γ -Glutamyl Transferase (GGT/ γ -GT) in human serum,plasma . γ -Glutamyl Transferase (GGT/ γ -GT)is present in the kidney, pancreas, liver and prostate, cecum and brain，Serum γ -Glutamyl Transferase mainly from the liver, gall bladder system. Therefore, when the hepatobiliary disease or injury, such as: obstructive jaundice, biliary cirrhosis, cholangitis, cholecystitis, its activity increased significantly. Pancreatic cancer, lack of special ampullary cancer can also lead to a significant increase in γ -Glutamyl Transferase. Therefore, the determination γ -Glutamyl Transferase has important clinical significance for the detection of hepatobiliary disease.

【METHODOLOGY】
L- γ -glutamyl -3- carboxyl -4- phenyl diazonium acid+Glycylglycine

GGT

⟶5- amino -2- Nitrobenzoic Acid Salt + L- γ - glutamyl glycyl glycine

【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】
Serum, heparin anticoagulant blood plasma.

Do not use hemolysis sample.

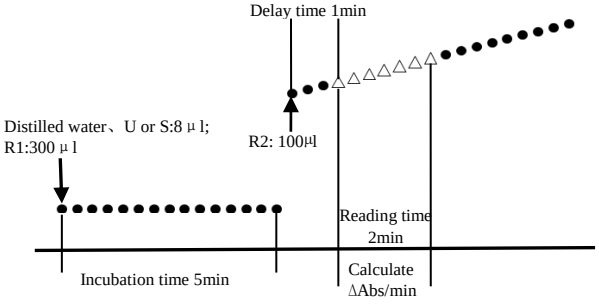
Stability of sample: store at -20~25℃ can stable 7 days.

【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	405 nm
Assay Type	Rate method
Direction	Increase
Sample : Reagent1:Reagent2Ratio	2:75:25
eg : Sample Vol.	8μL
Reagent1 Vol.	300 μL
Reagent2 Vol.	100 μL
Linearity	0～450U/L

【OPERATION STEPS】
R1: Reagent 1 R2: Reagent 2 S: Calibrator U: Sample



【CALCULATION】
Use The Calibrator

$$\text{Sample CHO concentration} = \frac{\text{Sample } \triangle A}{\text{Calibrator } \triangle A} \times \text{Calibrator concentration}$$

【REFERENCE RANGE】
Female: <32U/L Male: <47U/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】
GGT 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≤0.8,(405nm,lcm optical path).

2. Precision: repeatability CV≤5%;batch variations R≤5%.

3. Accuracy: relative deviation ≤10%.

4. Linearity range: 0～450U/L, r≥0.990.

5. Stability: All package reagent, unopened and avoid light, preservation in 2~8 ℃, stable 12 months, once opened, avoid light, preservation in 2~8 ℃,stable 30 days.

【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 450U/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.

Biobase Biodustry(Shandong)Co.,Ltd

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

Tel: 0086-531-91219801/03 Fax: 0086-531-81219804