Gamma GT Test Kit

REF	Pack Size	Reagent 1	Reagent 2 (Std)
GGTLMS01	2×50 ml	2×40 ml	2×10 ml
GGTLMS02	2x25 ml	2x20 ml	2x5 ml

INTENDED USE
Gamma GT use for quantitative analysis of GGT in human serum.

CLINICLE SIGNIFICANCE
GAMMA Glutamyl Transferase (GGT) is a cellular enzyme with wide tissue distribution in the body, primarily in the kidney, pancreas, liver and prostate. Measurements of GAMMA Glutamyl Transferase activity are used in the diagnosis and treatment of hepatobiliary disease such biliary obstruction, cirrhosis or liver tumours. Clinical diagnosis should not be made on a single test result, it should integrate clinical and other laboratory data.

METHOD- Modified IFCC method.

TEST PRINCIPLE
Optimized kinetic determination of γ-glutamyl transferase (γ-GT) activity:

GLUPA-C + Glycylglycine $\xrightarrow{\text{γ-GT}}$ L-γ-Glutamyl-glycylglycine + 5-amino-2-nitrobenzoic

GLUPA-C: L-γ-Glutamyl-3-carboxy-p-nitroanilide

The increase of absorbance at 405 nm due to the formation of 5-amino-2-nitrobenzoic acid is proportional to γ-GT activity.

KIT CONTAINTS/COMPONENTS
R1: Buffer Reagent & R2: Substrate

MATERIAL REQUIRED BUT NOT PROVIDED
Laboratory instrumentation, spectrophotometer UV/VIS with thermostatic cuvette holder or clinical chemistry analyzer: semi-automated, calibrated micropipettes, glass or high-quality polystyrene cuvettes, test tubes/rack, heating bath, controls, saline.

SAFETY PRECAUTIONS AND WARNINGS
1.For in-vitro diagnostics use only.
2.Do not pipette by mouth. Avoid contact with skin and eyes. If spilt thoroughly wash affected area with water.
3.Do not use the reagent after the expiration date printed on the kit.

REAGENT PREPARATION, STORAGE AND STABILITY
Reagent 1 & 2 are ready to use & are stable up to expiry date when stored at 2 – 8°C.
Step 1: For working reagent formation, Mix well four part of Reagent 1 and one part of Reagent 2. i.e. (800 µl R1 + 200 µl R2).

REAGENT DETERIORATION
Discard the reagent if absorbance exceeds 0.8 against distilled water.

SPECIMEN
Use unhemolysed serum, plasma (EDTA or Heparin only). GGT is stable up to 7 days at 2-8℃ and prolonged at -20℃.

PROGRAM

Reaction Mode	Kinetic
Wavelength	405 nm
Light Path	10 mm
Reagent Volume	1000 µl
Sample Volume	50 µl
Delay Time	60 Sec
Interval Time	60Sec
Factor	2211
Linearity	1000 U/L

PROCEDURE:
Bring all contents of the kit to room Temperature prior to use.

Reagent volume	1000 µl
Sample volume	50 µl

Mix & incubate for 30 sec. at assay temperature, read the first reading at 60 second and subsequently two more readings with 60 seconds interval at 405 nm.

CALCULATION
Activity of sample = (ΔA/min) x 2211

NORMAL VALUES
Men: 0 - 55 U/L
Women: 0 - 38 U/L

LIMITATIONS
If the value exceeds 1000U/L, dilute the sample with 0.9% saline solution rerun and result multiplied by dilution factor.

QUALITY CONTROL AND CALIBRATION
It is suggested to perform internal quality control with assayed normal and assayed abnormal, to confirm the validity of the test and assure the accuracy of patient result. Using the recommended calibrator or the Standard included, calibrate the assay.

WASTE DISPOSAL
This Product is made to be used in professional laboratories.

HIGHLIGHTS
1.Storage condition mentioned on the kit is to be used.
2.Before testing bring the reagents to the R.T.
3.Avoid reagents contamination.
4.Every time use new pipette-tips for pipetting out the reagents.
5.These Reagent kits meant for laboratory/professional use only, not for Drug use.

REFERENCE
Tietz N.W., ed. Clinical Guide to laboratory Tests, 3rd ed. Philadelphia, Pa: W.B. Saunders,1995:286
Lords Data File.

REF	Catalog No.	Σ	Contain Sufficient for test
LOT	Batch No.		Instruction for use
	Manufacturing Date	IVD	*In-vitro* Diagnostics
	Expiry Date		Storage temperature
	Manufacturer		

IFU/GGT/01 Rev.: 01; Rev Dated.: 22/07/2024

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