

Gamma GT Test Kit

REF	Pack Size	Reagent 1	Reagent 2 (Std)
GGTMS01	2x50 ml	2x40 ml	2x10 ml
GGTMS02	2x25 ml	2x20 ml	2x5 ml

INTENDED USE

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

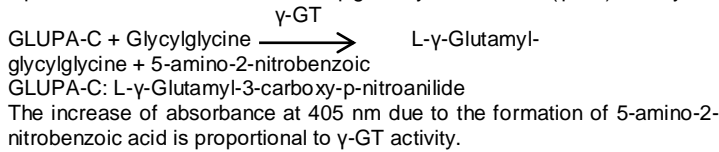
CLINICAL SIGNIFICANCE

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 as 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:



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

- For in-vitro diagnostics use only.
- Do not pipette by mouth. Avoid contact with skin and eyes. If spilt thoroughly wash affected area with water.
- 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 μ l R1 + 200 μ l 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°C and prolonged at -20°C.

PROGRAM

Reaction Mode	Kinetic
Wavelength	405 nm
Light Path	10 mm
Reagent Volume	1000 μ l
Sample Volume	50 μ l
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 μ l
Sample volume	50 μ l

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 = $(\Delta A/\text{min}) \times 2211$

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

- Storage condition mentioned on the kit is to be used.
- Before testing bring the reagents to the R.T.
- Avoid reagents contamination.
- Every time use new pipette-tips for pipetting out the reagents.
- 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.		Contain Sufficient for test
 LOT	Batch No.		Instruction for use
	Manufacturing Date		In-vitro Diagnostics
	Expiry Date		Storage temperature
	Manufacturer		

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

