CORALYZER
System Pack

γ Glutamyl Transferase Kit LS

(Carboxy Substrate Method)

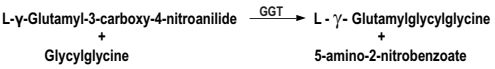
For the determination of GGT activity in serum.
(For Invitro Diagnostic Use Only)

Summary

γ Glutamyl Transferase (GGT) is an enzyme found mainly in serum from hepatic origin, though the highest levels are in the kidneys. Elevated levels are found in hepatobiliary and pancreatic diseases, Chronic alcoholism, myocardial infarction with secondary liver damage, and diabetics.

Principle

GGT catalyzes the transfer of amino group between L-γ-Glutamyl-3-carboxy-4 nitroanilide and Glycylglycine to form L–γ-Glutamylglycylglycine and 5-amino-2-nitrobenzoate. The rate of formation of 5-amino-2-nitrobenzoate is measured as an increase in absorbance which is proportional to the GGT activity in the sample.



Normal reference values

Serum Males : 10 - 50 U/L at 37°C
Females : 7 - 35 U/L at 37°C

It is recommended that each laboratory establish its own normal range representing its patient population.

Contents

Coralyzer 100 System Packs	**40 ml**	**80 ml**
L1 : Buffer Reagent	32 ml	2 x 32 ml
L2 : Starter Reagent	8 ml	16 ml

Coralyzer 200 System Packs	**40 ml**
L1 : Buffer Reagent	32 ml
L2 : Starter Reagent	8 ml

Storage / stability

Contents are stable at 2 - 8° C till the expiry mentioned on the labels.

Reagent preparation

Reagents are ready to use.

Sample material

Serum. Free from hemolysis. GGT is reported to be stable in serum for 3 days at 2 - 8° C.

Calibration

Calibrator is recommended for calibration of this assay

Linearity

This procedure is linear upto 700 U/L at 37°C.

Note

Samples having a very high activity show a very high initial absorbance. If this is suspected then dilute the sample and repeat the assay.

References

IFCC methods for the measurment of catalytic concentrations of enzymes, J. Clin. Chem. Clin Biochem. (1986) 24 : 497

Programming on	**CORALYZER 100/200**
Item	GGT LS
Full Name	GAMA GT LS
Test Method	Kinetic
Base Information	
Unit	U/L
Filter	405 nm
Sub. Filter	620 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	2
Sample	
Sample Volume	26
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	240
Rgt. 2 Volume	60
Linearity	700
Read data for check	
Assistant Start	NONE
Assistant End	NONE
Range Low	0
Range High	2
Test Point Start	19
Test Point End	29
Standard	
Number of standard	1
Factor	1
Correct Factor	1
Standard Cup	User Defined
Conc.	See Calibrator

Manufactured by :
Coral Clinical Systems
A Division of Tulip Diagnostics (P) Ltd.
Gitanjali, Dr. Antonio Do Rego Bagh,
Bambolim Complex P.O. GOA - 403 202, INDIA

GGT1(C)/0121/VER-02