CORALYZER
System Pack

SGPT (ALAT) Kit

(Mod. IFCC Method)

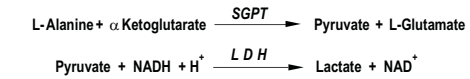
For the determination of SGPT (ALAT) activity in serum.
(For Invitro Diagnostic Use Only)

Summary

SGPT is found in a variety of tissues but is mainly found in the liver. Increased levels are found in hepatitis, cirrhosis, obstructive jaundice and other hepatic diseases. Slight elevation of the enzymes is also seen in myocardial infarction.

Principle

SGPT (ALAT) catalyzes the transfer of amino group between L - Alanine and α Ketoglutarate to form Pyruvate and Glutamate. The Pyruvate formed reacts with NADH in the presence of Lactate Dehydrogenase to form NAD. The rate of oxidation of NADH to NAD is measured as a decrease in absorbance which is proportional to the SGPT (ALAT) activity in the sample.



Normal reference values

Serum	Males	:	upto 40 U/L at 37°C
	Females	:	upto 31 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	**80 ml**	**240 ml**
L1 : Enzyme Reagent	2 x 32 ml	6 x 32 ml
L2 : Starter Reagent	16 ml	2 x 24 ml

Coralyzer 200 System Packs	**80 ml**	**200 ml**
L1 : Enzyme Reagent	2 x 32 ml	4 x 40 ml
L2 : Starter Reagent	2 x 8 ml	4 x 10 ml

Coralyzer 200 System Packs	**300 ml**
L1 : Enzyme Reagent	6 x 40 ml
L2 : Starter Reagent	4 x 15 ml

Storage / stability

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

Reagent Preparation

Reagents are ready to use.

Sample material

Serum. Free from hemolysis. SGPT (ALAT) 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 up to 500 U/L at 37°C.

References

IFCC methods for the measurement of catalytic concentrations of enzymes, J. Clin. Chem. Clin Biochem. (1986) 24 : 481.

Programming on	CORALYZER 100/200
Item	SGPT
Full Name	SGPT
Test Method	Kinetic
Base Information	
Unit	U/L
Filter	340 nm
Sub. Filter	670 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	2
Sample	
Sample Volume	30
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	240
Rgt. 2 Volume	60
Linearity	500
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.
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