CORALYZER
System Pack

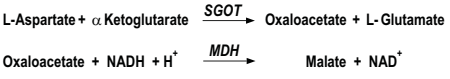
SGOT (ASAT) Kit

(Mod. IFCC Method)

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

Summary
SGOT is an enzyme found mainly in heart muscle, liver cells, skeletal muscle and kidneys. Injury to these tissues results in the release of the enzyme in blood. Elevated levels are found in myocardial infarction, Cardiac operations, Hepatitis, Cirrhosis, acute pancreatitis, acute renal diseases, primary muscle diseases. Decreased levels may be found in Pregnancy, Beri Beri and Diabetic ketoacidosis.

Principle
SGOT (ASAT) catalyzes the transfer of amino group between L - Aspartate and a Ketoglutarate to form Oxaloacetate and Glutamate. The Oxaloacetate formed reacts with NADH in the presence of Malate Dehydrogenase to form NAD.The rate of oxidation of NADH to NAD is measured as a decrease in absorbance which is proportional to the SGOT (ASAT) activity in the sample.



Normal reference values

Serum	Males	:	upto 37 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 labels.

Reagent preparation
Reagents are ready to use.

Sample material
Serum. Free from hemolysis. SGOT (ASAT) 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 500 U/L at 37°C.

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

Programming on	CORALYZER 100/200
Item	SGOT
Full Name	SGOT
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.
Gitanjali, Dr. Antonio Do Rego Bagh,
Bambolim Complex P.O. GOA - 403 202, INDIA

GOT2(C)/0121/VER-02