

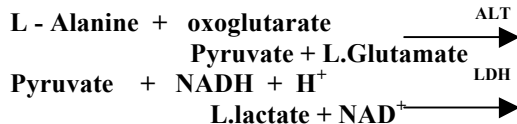


SGPT

Liquid Reagent
Kinetic determination . IFCC
Store at 2-8°C

PRINCIPLE

Kinetic determination of alanine Amino transferase based upon IFCC recommendations.



The rate of NADH consumption is directly proportional to the SGPT activity in the sample.

REFERENCE VALUES

Temperature		25°C	30°C	37°C
GPT U/l	Men	7-23	8-34	10-56
	Women	6-19	7-28	9-39

This ranges are given for orientation only each laboratory should establish its own normal range

SAMPLES

Serum free of hemolysis. Heparin plasma.
Loss of activity within 3days.

REAGENTS

R₁:

Tris buffer	100 mmol/l
L - Alanine	500 mmol/l
2- Oxoglutarate	15 mmol/l
LDH	2000 U/l

R₂ :

NADH	0.24 mmol/l
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PREPARATION OF WORKING REAGENT

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Reagent R1 and R2 are ready to use. If a monoreagent procedure is preferred then the reagent must be mixed in the ration 4 parts of R1 to 1 part of R2. The working reagent is stable for one month at 2-8°C

PROCEDURE

If the absorbance of working reagent is lower than 1.1 at 334nm the reagent can not be used.

Wavelength	340 nm
Temperature	25°C/30°C/37°C
Zero adjustment	Air
Cuvette	1 cm light path
Method	Kinetic - Decreasing

Sample	0.1 ml
Working reagent	1.0 ml

Mix and after one minute incubation measure the change of optical density per minute (Δ O.D/min.) during 3 minutes.

CALCULATION

$$U/L = \Delta \text{ O.D./min} \times 1742$$

LINEARITY

Up to 279 U/l. If the (Δ O.D/min.)_ exceeds 0.16 repeat the test using diluted simple with saline solution

QUALITY CONTROL

All control sera with SGPT values determined by this method may be employed.

NOTS

The reagent contain NaN₃, Do not swallow avoid contact with skin and mucous membranes. Chelating agents (EDTA) interfere with the reaction.

SPECIFICATION

Bilirubine 0.15g/l, lipid 10g/l, glucose 10g/l and ascorbic acid 0.5g/l don't interfere with the assay up to the given levels.

PRESENTATION

50 ml	Cat No 0501	60 Tests
60x3 ml	Cat No 0502	180 Tests

BIBLIOGRAPHY

- Internal. Federation of clinical Chemistry, Scientific committee, Clin. Chem., 23, 887 (1977).
- Bergmyer, Schaibe and Wahlefeld, Clin. Chim., 24. 58 (1978).

The following symbols are used on labels

 For in vitro diagnostic use

 Use day (last day of the month)

 Temperature limitation

LOT

Batch code

REF

Code