

BioMed-GPT (ALAT/ALT/GPT)



Colorimetric, Endpoint

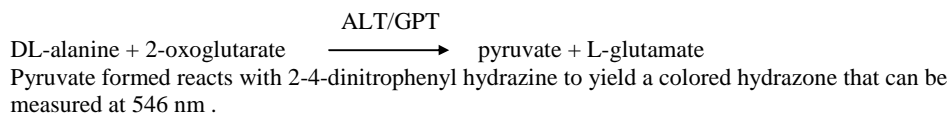
REF:	GPT113100	(2×50 ml)
	GPT113120	(2×60 ml)
	GPT113240	(2×120 ml)

INTENDED FOR USE:

For the quantitative determination of ALT/GPT in serum and plasma .

PRINCIPLE :

ALT determination is based on the following reaction:



SPECIMEN COLLECTION :

Non hemolyzed serum

AST/GPT in serum is reported stable up to 2 days at +15-25°C . , 7 days at +2-8°C and 3 weeks if frozen at -20°C.

Shake and bring the samples at room temperature (+15-25°C) before using .

REAGENTS COMPOSITION :

R1	Phosphate buffer ph 7.4 DL-Alanine Oxo-glutarate	100 mmol/l 80 mmol/l 4.0 mmol/l
R2	2-4-dinitrophenyl hydrazine	4.0 mmol/l
Additional Reagent: Sodium hydroxide 0.4 mol/l .		

PACKAGE : Collection & Storage .

Store at +2-8°C.

Stable until the expiration date reported upon the package.

After the unsealing and the taking of the reagent , it is advised to close up the bottle immediately in order to avoid evaporation , direct light exposure and bacterial contamination .

PRECAUTION & WARNING

Avoid pipetting by mouth .

The preparation , according to current regulation . is classified as not dangerous.

The total concentration of non active components (preservatives , detergents ,stabilizers) is below the minimum required for citation .

Anyway handle with care , avoid ingestion , avoid contact with eyes , skin and mucous membranes

The samples must be handle as potentially infected from HIV or Hepatitis .

REAGENT PREPARATION & STABILITY :

Liquid reagents must be at room temperature (+15-25°C) before using .

Ready to use liquid reagents.

REQUIRED MATERIALS NOT PROVIDED :

General Laboratory Equipment and instrumentations .

PROCEDURE :

Wavelength	546 nm
Optical path	1 cm
Incubation temperature	37°C
Measurement against	Reagent blank

Pipette into test tubes

	Blank	Specimen
Specimen	—	0.1 ml
Reagent 1	0.5 ml	0.5 ml
Dist. Water	0.1 ml	—
Mix, incubate for exactly 30 minutes at 37°C.		
Reagent 2	0.5 ml	0.5 ml
Mix, allow standing for exactly 20 minutes at 20-25°C.		
NaOH (0.4 mol/l)	5.0 ml	5.0 ml
Mix, read the absorbance of specimen (A_{specimen}) against the reagent blank after 5 minutes. The color intensity is stable for 1 hour.		

CALCULATION :

Obtain the activity of GPT in the serum from the table.

Absorbance	U/l	Absorbance	U/l
0.025	4	0.275	48
0.050	8	0.300	52
0.075	12	0.325	57
0.100	17	0.350	62
0.125	21	0.375	67
0.150	25	0.400	72
0.175	29	0.425	77
0.200	34	0.450	83
0.225	39	0.475	88
0.250	43	0.500	94

EXPECTED VALUES :

Serum	Up to 12 U/l
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WASTE DISPOSAL :

The disposal of the product must be in accordance with local regulation concerning waste disposal .

QUALITY CONTROL :

It is recommended to execute the quality control at every kit utilization to verify that values are within the reference range indicated by the methodology.

PERFORMANCE :

MEASURE INTERVAL :	7-89 U/L
MEASURABLE LIMIT :	3 U/L
SENSITIVITY :	7 U/L= 0.0017 ΔE/min.

INTERFERENCE:










Interferences are negligible up to :			
Bilirubin	18 mg/dL	Triglycerides	500 mg/dL
Hemoglobin	300 mg/dL	Glucose	500 mg/dL

METHOD LIMITATIONS:

- The reaction is linear up to absorbance 0.5 (94 U/l),specimen showing higher activity should be diluted 1+9 using physiological saline and repeat the assay (result x 10)
- Reagent 1 contains sodium azide. Avoid ingestion or contact with skin or mucous membranes.
- The incubation time and temperature are vital factor, instructions must be followed exactly.

REFERENCES:

1. Tietz, N.W. (ed) Fundamentals of Clinical Chemistry W.B. Saunders Co., Philadelphia, 1976.
2. Henry, R.J., Clinical Chemistry, Principles and Technics. Harper and Row Publishers. New York,1964.
3. Provisional Recommendations on IFCC methods for the measurement of catalytic concentrations of enzymes. Clin chem. 23(887), 1977.

	Consult Instructions for Use
	Caution, Consult accompanying
	In Vitro Diagnostic Medical
	Temperature Limitation
	Manufacturer
	Authorized Representative in the European Community
	Catalogue Number
	Batch Code
	Use by

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