BIOBOON BIOTECH LLC

SGPT (ALT) IFCC Kinetic UV Test

Quantitative Determination of Alanine Aminotransferase (ALT)

Kinetic UV method for determination of SGPT (ALT) activity



IFCC Method | Kinetic Test | Quantitative Assay

AUTOMATED PARAMETERS

Wavelength	340 nm
Cuvette	1 cm light path
Reaction temperature	37°C
Reaction type	Kinetic test
Reaction direction	Decreasing
Sample volume	100 µL
Reagent volume	1000 µL
Delay/Lag time	60 seconds
Interval time	30 seconds
Number of readings	4
Factor	1746
Low normal at 37°C	0 U/L
High normal at 37°C	40 U/L
Linearity at 37°C	400 U/L

MANUAL ASSAY PROCEDURE

1. Pipette 1000 µL of working reagent and 100 µL of sample into test tube.
2. Mix well; after 1 minute at 37°C read absorbance at 340 nm and start timer simultaneously.
3. Measure the decrease every 30 seconds for 2 minutes and calculate ΔA/min (ΔA/30 sec × 2).

LINEARITY & SAMPLE DILUTION

1. This method is linear upto a concentration of 400 U/L.
2. If the concentration exceeds this value, the sample should be diluted 1:1 with 0.9% saline solution.
3. Repeat assay. Multiply the result by 2.

LIMIT OF DETECTION

5 U/L

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