

# GGT

FOR THE QUANTITATIVE MEASUREMENT OF GGT

**METHOD: ENZYMATIC (GPNA); KINETIC**

GGT measurements are used as an aid to monitor and diagnose liver diseases.

Sekisui's GGT (Gamma-Glutamyl Transferase) assay incorporates a carboxylated substrate for detection of GGT, following a modification of the International Federation of Clinical Chemistry (IFCC) rapid kinetic procedure. It is intended for the measurement of GGT in serum or plasma.

## Features:

- Two part stable liquid reagent
- No significant interference displayed from samples with elevated levels of lipemia, icterus or ascorbic acid
- Extended linear range to 1200 U/L\*
- Serum or plasma acceptable

## Benefits:

- Easy to use, no additional preparation required
- Accurate results
- Reduces the need for dilutions and repeat testing
- Flexible sample types to meet different laboratory needs

## Performance Characteristics

### Precision

- Within-Run:  $\leq 1.9\%$
- Total Precision:  $\leq 3.7\%$

### Accuracy<sup>(a)</sup>

#### SERUM

- Slope: 0.981
- Intercept: 0.07 U/L
- Correlation Coefficient: 1.0000

#### PLASMA

- Slope: 0.991
- Intercept: 0.4 U/L
- Correlation Coefficient: 0.9995

### Linearity

- 7.0 to 1200.0 U/L

### No Significant Interferences Up to Levels Indicated

- Bilirubin: 40 mg/dL (684  $\mu\text{mol/L}$ )
- Hemoglobin: 600 mg/dL (93  $\mu\text{mol/L}$ )
- Ascorbic Acid: 3000  $\mu\text{g/dL}$  (170  $\mu\text{mol/L}$ )
- Intralipid: 1000 mg/dL (3000 mg/dL (34 mmol/L) Simulated Triglycerides)

### Reference Range<sup>(1)</sup>

- Females: 8.8 - 22.0 U/L at 37°C
- Males: 10.4 - 33.8 U/L at 37°C

(a) SERUM: The performance of this method (y) was compared with the performance of a similar GGT method (x) on a Roche/Hitachi® analyzer.

PLASMA: The performance of this method (plasma) was compared with the performance of this method (serum) on a Roche/Hitachi® 911 analyzer.

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## Ordering information

	Configuration	Catalog Number
<b>GGT</b>	R1 1 X 100mL R2 1 X 20mL	334-10
<b>DC-Cal Calibrator</b>	5 x 3mL	SE-035
<b>DC-Trol Level 1</b>	10 x 5mL	SM-052
<b>DC-Trol Level 2</b>	10 x 5mL	SM-056

(1) Tietz, N.W., *Clinical Guide to Laboratory Tests*, 3rd Edition, W.B. Saunders Company, Philadelphia, Pennsylvania, p. 286 (1995).

\*Compared to the reference range



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