

Alkaline Phosphatase-SL (ALP-SL)

FOR THE QUANTITATIVE MEASUREMENT OF ALKALINE PHOSPHATASE

METHOD: ENZYMATIC (MODIFIED IFCC); KINETIC

ALP measurements are used as an aid to monitor and diagnose liver disease and bone disorders.

The Sekisui ALP-SL method is based on a modification of the International Federation of Clinical Chemistry (IFCC) procedure. It is intended for the quantitative measurement of alkaline phosphatase in serum.⁽¹⁾

Features:

- Two part, stable liquid
- Wide linear range
- No significant interference displayed from samples with elevated levels of icterus or lipemia
- Applicable to multiple chemistry platforms

Benefits:

- Easy to use
- Reduces repeat testing and the need for sample dilutions
- High reliability of testing
- Flexible laboratory testing

Performance Characteristics

Precision

- Within-Run: $\leq 2.4\%$
- Total Precision: $\leq 4.6\%$

Accuracy^(a)

- Slope: 1.0276
- Intercept: -1.0 U/L
- Correlation Coefficient: 1.0000

Linearity

- 4 - 2000 U/L

No Significant Interferences Up to Levels Indicated

- Hemoglobin: 200 mg/dL (31 $\mu\text{mol/L}$)
- Bilirubin: 40 mg/dL (684 $\mu\text{mol/L}$)
- Ascorbic Acid: 1200 $\mu\text{g/dL}$ (68 $\mu\text{mol/L}$)
- Intralipid: 1000 mg/dL (3000 mg/dL (33.9 mmol/L) Simulated Triglycerides)

Reference Range⁽²⁾

- Less than 103 U/L (30°C)
- Less than 138 U/L (37°C)

(a) The performance of this method (y) was compared with the performance of a similar alkaline phosphatase method (x) on a Roche/Hitachi® 717 analyzer.

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Ordering information

	Configuration	Catalog Number
ALP-SL	R1 3 x 100mL R2 1 x 75mL	328-30
DC-Cal Calibrator	5 x 3mL	SE-035
DC-Trol Level 1	10 x 5mL	SM-052
DC-Trol Level 2	10 x 5mL	SM-056

(1) Tietz, N.W., Rinker, A.D.U., Shaw, L.M. IFCC Methods for the Measurement of Catalytic Concentration of Enzymes. Part 5. IFCC Method for Alkaline Phosphatase. J. Clin. Chem. Biochem. 21, 371-478 (1983).

(2) Pesce, A.J., Kaplan, L.A., Methods In Clinical Chemistry, Toronto, C.V. Mosby Co., 1078 (1987).

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