

Phosphorus-SL

FOR THE QUANTITATIVE MEASUREMENT OF INORGANIC PHOSPHORUS

METHOD: AMMONIUM MOLYBDATE; ENDPOINT

Inorganic Phosphorus measurements are used as an aid to monitor and diagnose thyroid disease, renal dysfunction and Vitamin D imbalance.

Sekisui's Inorganic Phosphorus assay employs the ammonium molybdate methodology and is intended for the quantitative measurement of inorganic phosphorus in serum.

Features:

- Two part stable liquid, ready to use reagent
- Wide linear range*
- Applicable to multiple chemistry platforms

Benefits:

- Easy to use, no additional preparation required
- Reduces repeat testing and the need for sample dilutions
- Flexible testing, well suited for use with fully automated procedures

Performance Characteristics

Precision

- Within-Run: $\leq 1.5\%$
- Total Precision: $\leq 1.7\%$

Accuracy^(a)

- Slope: 0.9926
- Intercept: 0.00 mg/dL (0.0 mmol/L)
- Correlation Coefficient: 0.9998

Linearity

- 0.1 - 20 mg/dL (0.03 - 6.46 mmol/L)

No Significant Interferences Up to Levels Indicated

- Hemoglobin: 400 mg/dL (62 $\mu\text{mol/L}$)
- Bilirubin: 40 mg/dL (684 $\mu\text{mol/L}$)
- Intralipid: 600 mg/dL (1800 mg/dL (20 mmol/L) Simulated Triglycerides)

Reference Range⁽¹⁾

- Adults 2.7-4.5 mg/dL (0.87-1.45 mmol/L)
- Children 4.0-7.0 mg/dL (1.29-2.26 mmol/L)

(a) The performance of this method (y) was compared with the performance of a similar phosphorus method (x) on a Roche/Hitachi® 704 analyzer.

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Ordering information

	Configuration	Catalog Number
Phosphorus-SL	R1 3 x 100mL R2 1 x 75mL 1 x 15mL (Calibrator**)	117-30
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) Burtis, C.A., Ashwood, E.R., *Tietz Textbook of Clinical Chemistry*, 2nd ed. W.B. Saunders Co., Toronto, pp 1950-1952, p. 2202 (1994).

*Compared to the reference range

**Calibrator for Manual Assays Only



Experience + Technology + Portfolio + Support = **CLINICAL CHEMABILITY™**

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DIAGNOSTICS

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