

Calcium

FOR THE QUANTITATIVE MEASUREMENT OF CALCIUM

METHOD: ARSENAZO III; ENDPOINT

Calcium measurements are used as an aid to monitor and diagnose bone and kidney disorders as well as neurological disease and pancreatitis.

The Sekisui Calcium assay uses an Arsenazo III procedure which is easy to use and applicable to routine laboratory instrumentation. It is intended for the measurement of calcium in serum.

Features:

- No significant interference displayed from samples with elevated levels of hemolysis, lipemia or icterus
- One part, stable liquid
- Excellent precision
- Wide variety of chemistry analyzer applications available

Benefits:

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

Performance Characteristics

Precision

- Within-Run: $\leq 0.8\%$
- Total Precision: $\leq 1.0\%$

Accuracy^(a)

- Slope: 0.875
- Intercept: 0.91 mg/dL (0.23 mmol/L)
- Correlation Coefficient: 0.9889

Linearity

- 0.04 - 15.00 mg/dL (0.01 - 3.75 mmol/L)

No Significant Interferences Up to Levels Indicated

- Hemoglobin: 1000 mg/dL (155 μ mol/L)
- Bilirubin: 40 mg/dL (684 μ mol/L)
- Intralipid: 1000 mg/dL (3000 mg/dL (33.9 mmol/L) Simulated Triglycerides)

Reference Range⁽¹⁾

SERUM

- Premature Infants: 6.0 - 10.0 mg/dL (1.5 - 2.5 mmol/L)
- Full-term infants: 7.3 - 12.0 mg/dL (1.8 - 3.0 mmol/L)
- 1 to 2 years: 10.0 - 12.0 mg/dL (2.5 - 3.0 mmol/L)
- Adults: 8.0 - 10.5 mg/dL (2.0 - 2.6 mmol/L)

(a) The performance of this method (y) was compared with the performance of another calcium method (x).

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Ordering information

	Configuration	Catalog Number
Calcium	R1 4 x 125mL (Reagent) 1 x 15mL (Calibrator*)	140-20
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) Kaplan, Lawrence A. and Pesce, Amadeo J., (Eds.), *Clinical Chemistry: Theory, Analysis, Correlation*, Mosby-Year Book Inc., St. Louis (1996).

*Calibrator for Manual Assays Only



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

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