



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

METHOD: ARSENAZO III; ENDPOINT

FEATURES:

FOR THE QUANTITATIVE MEASUREMENT OF CALCIUM

Genzyme Calcium Reagent

The Genzyme 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.

- ✓ 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

ORDERING INFORMATION	CONFIGURATION	CATALOG NUMBER
<input type="radio"/> GENZYME CALCIUM	R1 4 X 125 mL 1 X 15 mL CALIBRATOR*	140-20
<input type="radio"/> GENZYME CALCIUM	R1 1 X 1000 mL	140-24
<input type="radio"/> GENZYME DC-CAL CALIBRATOR	5 X 3 mL	SE-035
<input type="radio"/> GENZYME DC-TROL LEVEL 1	10 X 5 mL	SM-052
<input type="radio"/> GENZYME DC-TROL LEVEL 2	10 X 5 mL	SM-056

*Calibrator For Manual Assays Only



THE AMERICAS
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PERFORMANCE CHARACTERISTICS

PRECISION	Within-Run: ≤0.8 % Total Precision: ≤1.0 %
ACCURACY <small>The performance of this method (y) was compared with the performance of another calcium method (x).</small>	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 µmol/L) Bilirubin: 40 mg/dL (684 µmol/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)

⁽¹⁾ Kaplan, Lawrence A. and Pesce, Amadeo J., (Eds.), *Clinical Chemistry: Theory, Analysis, Correlation*, Mosby-Year Book Inc., St. Louis (1996).

NOTES:

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