



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

METHOD: PHOSPHONAZO; ENDPOINT

FEATURES:

FOR THE QUANTITATIVE MEASUREMENT OF CALCIUM
Genzyme Calcium L3K[®] Reagent

The Genzyme Calcium L3K[®] assay utilizes an innovative synthetic dye complex, Phosphonazo III, in a unique buffering system for the quantitative measurement of calcium in serum, heparinized plasma and urine.

- ✓ No significant interference displayed from samples with elevated levels of hemolysis, lipemia, icterus or ascorbic acid
- ✓ One part, stable liquid
- ✓ Arsenazo-free reagent
- ✓ Suitable for use with serum, heparinized plasma and urine

BENEFITS:

- ✓ Reduces the need for sample dilutions
- ✓ Easy to use, no additional preparation required
- ✓ Environmentally safe
- ✓ Flexible sample types to meet different laboratory needs

ORDERING INFORMATION	CONFIGURATION	CATALOG NUMBER
○ GENZYME CALCIUM L3K [®]	R1 4 X 125 mL	145-20
○ GENZYME DC-CAL CALIBRATOR	5 X 3 mL	SE-035
○ GENZYME DC-TROL LEVEL 1	10 X 5 mL	SM-052
○ GENZYME DC-TROL LEVEL 2	10 X 5 mL	SM-056



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PERFORMANCE CHARACTERISTICS

PRECISION	SERUM	PLASMA	URINE	
	Within-Run	≤0.5 %	≤0.8 %	≤1.3 %
	Total Precision	≤1.4 %	≤1.1 %	≤1.6 %
ACCURACY	SERUM			
	Slope: 1.015			
	Intercept: -0.18 mg/dL (-0.45 mmol/L)			
	Correlation Coefficient: 0.9979			
	PLASMA			
	Slope: 0.971			
	Intercept: 0.0 mg/dL (0.0 mmol/L)			
	Correlation Coefficient: 0.9994			
	URINE			
	Slope: 0.957			
	Intercept: 0.36 mg/dL (0.089 mmol/L)			
	Correlation Coefficient: 0.9988			
The performance of this method (y) was compared with the performance of another calcium method (x) on a Roche/Hitachi® 911 analyzer.				
LINEARITY	0.2-15.0 mg/dL (0.05 to 3.75 mmol/L)			
NO SIGNIFICANT INTERFERENCES UP TO LEVELS INDICATED	Hemoglobin: 1000 mg/dL (155 µmol/L)			
	Ascorbic Acid: 3000 µg/dL (170 µmol/L)			
	Bilirubin: 40 mg/dL (684 µmol/L)			
	Intralipid: 1000 mg/dL (3000 mg/dL (33.9 mmol/L)			
	Simulated Triglycerides)			
REFERENCE RANGE	SERUM ⁽¹⁾			
	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)		
	PLASMA ⁽²⁾			
	Adults	8.6-10.3 mg/dL (2.15-2.57 mmol/L)		
	URINE ⁽¹⁾			
	Men	<275 mg/24 hr (<6.87 mmol/24 hr)		
	Women	<250 mg/24 hr (<6.25 mmol/24 hr)		

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

⁽²⁾ Burtis, C.A. and Ashwood, E.R., (Eds.) *Tietz Textbook of Clinical Chemistry*, W.B. Saunders Co., Philadelphia (1999).

NOTES:



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