



CO₂ measurements are used as an aid in the diagnosis and treatment of an **acid-base imbalance**.

METHOD: ENZYMATIC (PHOSPHOENOLPYRUVATE CARBOXYLASE); RATE

FEATURES:

FOR THE QUANTITATIVE MEASUREMENT OF CARBON DIOXIDE

Carbon Dioxide (CO₂) L3K[®]

Sekisui's Carbon Dioxide (CO₂) L3K[®] Reagent uses an enzymatic procedure which is easy to use and applicable to routine laboratory instrumentation. It is intended for the measurement of carbon dioxide in serum and plasma.

- ✓ One part stable liquid
- ✓ Wide linear range
- ✓ Negligible bilirubin and hemoglobin interferences
- ✓ Excellent precision

BENEFITS:

- ✓ Easy to use, no additional preparation required
- ✓ Reduces the need for diluting and repeat testing
- ✓ Dependable results

ORDERING INFORMATION	CONFIGURATION	CATALOG NUMBER
<input type="radio"/> CARBON DIOXIDE (CO ₂) L3K [®]	R1 5 X 100 mL	299-17 (ROCHE/HITACHI [®] COMPATIBLE WEDGE)
<input type="radio"/> CARBON DIOXIDE (CO ₂) L3K [®]	R1 6 X 30 mL	299-30
<input type="radio"/> CARBON DIOXIDE (CO ₂) L3K [®]	R1 4 X 500 mL	299-50
<input type="radio"/> CARBON DIOXIDE (CO ₂) L3K [®]	R1 1 X 500 mL	299-55
<input type="radio"/> CARBON DIOXIDE (CO ₂) L3K [®]	R1 1 X 1000 mL	299-80
<input type="radio"/> DC-CAL CALIBRATOR	5 X 3 mL	SE-035
<input type="radio"/> DC-TROL LEVEL 1	10 X 5 mL	SM-052
<input type="radio"/> DC-TROL LEVEL 2	10 X 5 mL	SM-056
<input type="radio"/> CO ₂ STANDARD*	1 X 15 mL	9217



THE AMERICAS
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*Not available in Canada and Europe

PERFORMANCE CHARACTERISTICS

PRECISION	Within-Run: ≤1.7% Total Precision: ≤1.7%
ACCURACY <p>The performance of this method (y) with serum samples was compared with the performance of a similar carbon dioxide method (x) on a Cobas Mira® analyzer.</p> <p>The performance of this method (y) with plasma samples (y) was compared to this method with serum samples (x) on an Advia® 1650 analyzer.</p>	SERUM Slope: 1.00 Intercept: -0.42 mmol/L (-0.42 mEq/L) Correlation Coefficient: 0.9861 PLASMA Slope: 0.950 Intercept: 1.35 mmol/L (1.35 mEq/L) Correlation Coefficient: 0.9636
LINEARITY	2.9 to 50.0 mmol/L (2.9-50.0 mEq/L)
NO SIGNIFICANT INTERFERENCES UP TO LEVELS INDICATED	Hemoglobin: 600 mg/dL (93 µmol/L) Bilirubin: 40 mg/dL (684 µmol/L) Intralipid: 1000 mg/dL (3000 mg/dL (34 mmol/L) Simulated Triglycerides)
REFERENCE RANGE⁽¹⁾	22 - 29 mmol/L (22 - 29 mEq/L)

(1) Tietz, N.W. (Editor), *Textbook of Clinical Chemistry*, W.B. Saunders Co., Philadelphia (1986).

NOTES:



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