

Carbon Dioxide (CO₂) L3K[®]

FOR THE QUANTITATIVE MEASUREMENT OF CARBON DIOXIDE

METHOD: ENZYMATIC (PHOSPHOENOLPYRUVATE CARBOXYLASE); RATE

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

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.

Features:

- One part stable liquid
- Wide linear range*
- Excellent precision

Benefits:

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

Performance Characteristics

Precision

- Within-Run: ≤1.7%
- Total Precision: ≤1.7%

Accuracy^(a)

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)

(a) 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.

The performance of this method (y) with plasma samples (y) was compared to this method with serum samples (x) on an Advia[®] 1650 analyzer.

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Ordering information

	Configuration	Catalog Number
CARBON DIOXIDE (CO₂) L3K[®]	R1 5 X 100mL	299-17 (ROCHE/HITACHI [®] COMPATIBLE WEDGE)
CARBON DIOXIDE (CO₂) L3K[®]	R1 6 X 30mL	299-30
CARBON DIOXIDE (CO₂) L3K[®]	R1 4 X 500mL	299-50
CARBON DIOXIDE (CO₂) L3K[®]	R1 1 X 500mL	299-55
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
CO₂ STANDARD**	1 x 15mL	9217

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

*Compared to the reference range

**Not available in Canada and Europe



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

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DIAGNOSTICS

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