

## Carbon Dioxide (CO<sub>2</sub>) L3K<sup>®</sup>

### FOR THE QUANTITATIVE MEASUREMENT OF CARBON DIOXIDE

**METHOD: ENZYMATIC (PHOSPHOENOLPYRUVATE CARBOXYLASE); RATE**

CO<sub>2</sub> measurements are used as an aid in the diagnosis and treatment of an acid-base imbalance. SEKISUI'S Carbon Dioxide (CO<sub>2</sub>) 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\*

#### 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<sup>(a)</sup>

##### 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

(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<sup>®</sup> analyzer.

The performance of this method (y) with plasma samples (y) was compared to this method with serum samples (x) on an Advia<sup>®</sup> 1650 analyzer.

##### 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<sup>(1)</sup>

- 22 - 29 mmol/L (22 - 29 mEq/L)

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

\*Compared to the reference range

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## Ordering Information

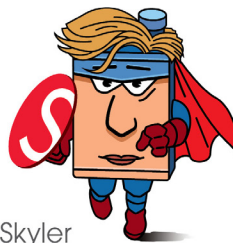
	Configuration	Catalog Number
CARBON DIOXIDE (CO <sub>2</sub> ) L3K	R1 5 X 100mL	299-17 (ROCHE/HITACHI® COMPATIBLE WEDGE)
CARBON DIOXIDE (CO <sub>2</sub> ) L3K	R1 6 X 30mL	299-30
CARBON DIOXIDE (CO <sub>2</sub> ) L3K	R1 4 X 500mL	299-50
CARBON DIOXIDE (CO <sub>2</sub> ) L3K	R1 1 X 500mL	299-55
DC-CAL CALIBRATOR	5 x 3mL	SE-035
DC-TROL LEVELS 1 & 2	Level 1 5 x 5mL Level 2 5 x 5mL	SM-057
CO <sub>2</sub> STANDARD**	1 x 15mL	9217

\*\*Not available in Canada and Europe

To learn more about our clinical chemistry reagent products scan the QR code or go to [Clinical Chemistry Reagents – SEKISUI Diagnostics](#).



Sam



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Suzy

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