

Carbon Dioxide (CO₂) L3K[®] - C

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 - Concentrate 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 reagent, 5X concentrate
- Applicable to multiple chemistry platforms
- Serum and Li Heparin plasma are acceptable sample types

Benefits

- Accommodates most testing requirements regardless of laboratory size or workload
- Flexible testing, well suited for use with fully automated procedures
- Flexible sample types to meet different laboratory needs

Performance Characteristics

Precision

- Within-Run: ≤1.3% (Serum)
- Within-Run: ≤1.9% (Plasma)
- Total Precision: ≤4.6%

Accuracy^(a)

SERUM

- Slope: 1.014
- Intercept: 0.50 mmol/L (0.50 mEq/L)
- Correlation Coefficient: 0.9944

PLASMA

- Slope: 0.973
- Intercept: 0.89 mmol/L (0.89 mEq/L)
- Correlation Coefficient: 0.9907

(a) The performance of this method (y) was compared with the performance of another carbon dioxide method (x) on a Hitachi[®] 717 analyzer.

Linearity

- 1.0 - 50.0 mmol/L (1.0 - 50.0 mEq/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 (34 mmol/L) Simulated Triglycerides)

Reference Range⁽¹⁾

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

(1) Burtis, C.A., Ashwood, E.R.T., (Editors), *Tietz Textbook of Clinical Chemistry*, 3rd Edition, W.B. Saunders Company, Philadelphia (1999).

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Ordering Information

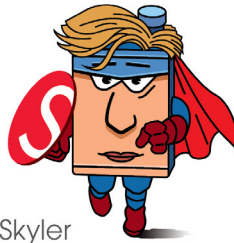
	Configuration	Catalog Number
CARBON DIOXIDE (CO ₂) L3K - C	R1 3 X 60mL	288-36
DC-CAL CALIBRATOR	5 x 3mL	SE-035
DC-TROL LEVELS 1 & 2	Level 1 5 x 5mL Level 2 5 x 5mL	SM-057
CO ₂ STANDARD*	1 x 15mL	9217

*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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Securing accurate and reliable Clinical Chemistry results!



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