

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

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)

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

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Ordering information

	Configuration	Catalog Number
CARBON DIOXIDE (CO₂) L3K[®] - C	R1 3 X 60mL	288-36
CARBON DIOXIDE (CO₂) L3K[®] - C	R1 1 X 1000mL	288-80
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) Burtis, C.A., Ashwood, E.R.T., (Editors), *Tietz Textbook of Clinical Chemistry*, 3rd Edition, W.B. Saunders Company, Philadelphia (1999).

*Not available in Canada and Europe



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

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