

Ammonia L3K[®]

FOR THE QUANTITATIVE MEASUREMENT OF AMMONIA

METHOD: ENZYMATIC (GLUTAMATE DEHYDROGENASE); ENDPOINT

Ammonia measurements are used in the diagnosis of coma, Reyes Syndrome and liver disease.

The Sekisui Ammonia L3K[®] assay uses a spectrophotometric method utilizing glutamate dehydrogenase. It is a convenient method that is intended for the measurement of ammonia in plasma.

Features:

- One part, stable liquid
- No significant interference displayed from ascorbic acid or bilirubin
- Applicable to multiple chemistry platforms

Benefits:

- Easy to use, no additional preparation required
- Reduces the need for repeat testing and sample dilutions
- Laboratory flexibility

Performance Characteristics

Precision

- Within-Run: $\leq 3.7\%$
- Total Precision: $\leq 3.7\%$

Accuracy^(a)

- Slope: 0.997
- Intercept: 0.15 $\mu\text{g/mL}$ (8.8 $\mu\text{mol/L}$)
- Correlation Coefficient: 0.9997

Linearity

- 0.15 - 20.00 $\mu\text{g/mL}$ (8.8 - 1174.2 $\mu\text{mol/L}$)

No Significant Interferences Up to Levels Indicated

- Conjugated bilirubin: 40 mg/dL (474 $\mu\text{mol/L}$)
- Unconjugated Bilirubin: 40 mg/dL (684 $\mu\text{mol/L}$)
- Ascorbic Acid: 3000 $\mu\text{g/dL}$ (170 $\mu\text{mol/L}$)
- Plasma Pyruvate: 6.6 mg/dL (0.75 mmol/L)
- Plasma Lactate: 200 mg/dL (22.2 mmol/L)
- Intralipid: 200 mg/dL (600 mg/dL (6.8 mmol/L) Simulated Triglycerides)

Reference Range⁽¹⁾

- 0.20 - 0.80 $\mu\text{g/mL}$ (12 - 47 $\mu\text{mol/L}$)

(a) The performance of this method (y) tested on an ADVIA[®] 1650 was compared with the performance of another commercially available ammonia method (x) tested on a Roche/Hitachi[®] 911.

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Ordering information

	Configuration	Catalog Number
Ammonia LK3[®]	R1 2 x 20mL (Reagent) 1 x 15mL (Calibrator)	293-10

(1) Ratcliff, C.R., and Hall, F.F., Selected Methods of Clinical Chemistry 9:85, Edited by Willard R. Faulkner and Samuel Meites, American Association for Clinical Chemistry, Washington, D.C. (1982).



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