Creatinine-S

FOR THE QUANTITATIVE MEASUREMENT OF CREATININE

METHOD: MODIFIED JAFFÉ; KINETIC

Creatinine measurements are used as an aid to monitor and diagnose renal disease.

Sekisui's Creatinine-S method is a modified kinetic, Jaffé procedure, capable of further reducing potential interferences when compared to conventional kinetic creatinine methods. It is intended for the measurement of creatinine concentration in serum and urine.

Features:

- Two part stable liquid ready to use reagent
- No significant lipemic interference
- Applicable to multiple chemistry platforms

Benefits:

- Easy to use, no additional reagent preparation required
- Reduces the need for sample dilutions
- Flexible testing, well suited for use with fully automated procedures

Performance Characteristics

Precision

SERUM

- Within-Run: ≤1.7%
- Total Precision: ≤2.9%

URINE

- Within-Run: ≤0.9%
- Total Precision: ≤1.4%

Accuracy[a]

SERUM

- Slope: 1.0008
- Intercept: 0.003 mg/dL (0.27 µmol/L)
- Correlation Coefficient: 0.999

URINE

- Slope: 0.9535
- Intercept: 0.01 mg/dL (0.88 µmol/L)
- Correlation Coefficient: 0.9998

Linearity

- 0.1 - 22.0 mg/dL (9 - 1945 µmol/L)

(a) The performance of this method (y) was compared with the performance of a similar creatinine procedure (x) using an automated analyzer.

No Significant Interferences Up to Levels Indicated

- Hemoglobin: 750 mg/dL (116 µmol/L)
- Bilirubin: 10 mg/dL (171 µmol/L)
- Intralipid: 1000 mg/dL (3000 mg/dL (33.9 mmol/L) Simulated Triglycerides)

Reference Range[1]

SERUM

- 0.5 - 1.2 mg/dL (44 - 106 µmol/L)

URINE

- Male: 800 - 2000 mg/24 hours (7072 - 17680 µmol/24 hours)
- Female: 600 - 1800 mg/24 hours (5304 - 15912 µmol/24 hours)

CLINICAL CHEMISTRY REAGENTS

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Ordering information

	Configuration	Catalog Number
Creatinine-S	R1 2 x 250mL R2 1 x 125mL	221-30
Creatinine-S	R1 1 x 1000mL R2 1 x 250mL	221-50
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

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

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