



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

METHOD: ENZYMATIC (CREATININE AMIDOHYDROLASE); ENDPOINT

FEATURES:

FOR THE QUANTITATIVE MEASUREMENT OF CREATININE

## Genzyme Enzymatic Creatinine Reagent

Genzyme's Enzymatic Creatinine assay utilizes a multi-step approach ending with a photometric end-point reaction. The assay accurately measures creatinine levels in serum, plasma and urine.

Generally, enzymatic methods have been shown to be more specific for the determination of creatinine levels than Jaffé-based methods.

- ✓ No significant interference from samples with elevated levels of lipemia, hemolysis, icterus or ascorbic acid
- ✓ Excellent precision and specificity
- ✓ Liquid, ready to use reagent
- ✓ Applicable to multiple chemistry platforms
- ✓ Serum, lithium heparin plasma or urine acceptable

BENEFITS:

- ✓ High reliability of testing
- ✓ Confidence in results
- ✓ Easy to use, no additional preparation required
- ✓ Laboratory flexibility
- ✓ Flexible sample types to meet different laboratory needs

ORDERING INFORMATION	CONFIGURATION	CATALOG NUMBER
<input type="radio"/> GENZYME ENZYMATIC CREATININE	R1 3 X 100 mL R2 1 X 100 mL	265-30
<input type="radio"/> GENZYME ENZYMATIC CREATININE	R1 1 X 1000 mL R2 1 X 350 mL	265-50
<input type="radio"/> GENZYME DC-CAL CALIBRATOR	5 X 3 mL	SE-035
<input type="radio"/> GENZYME DC-TROL LEVEL 1	10 X 5 mL	SM-052
<input type="radio"/> GENZYME DC-TROL LEVEL 2	10 X 5 mL	SM-056



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**PERFORMANCE CHARACTERISTICS**

<p><b>PRECISION</b></p>	<p>Within-Run: ≤0.6 % Total Precision: ≤2.7 %</p>
<p><b>ACCURACY</b></p> <p>The performance of this method (y) was compared with the performance of a similar method (x) on an Advia® 1650.</p>	<p><b>SERUM</b> Slope: 1.03 Intercept: -0.13 mg/dL (-11.49 µmol/L) Correlation Coefficient: 1.0000</p> <p><b>PLASMA</b> Slope: 1.01 Intercept: -0.03 mg/dL (-2.92 µmol/L) Correlation Coefficient: 0.9997</p> <p><b>URINE</b> Slope: 1.04 Intercept: 1.06 mg/dL (93.70 µmol/L) Correlation Coefficient: 0.9995</p>
<p><b>LINEARITY</b></p>	<p>Serum and Plasma: 0.03-30.0 mg/dL (3-2652 µmol/L) Urine: 0.02-175.0 mg/dL (2-15470 µmol/L)</p>
<p><b>NO SIGNIFICANT INTERFERENCES UP TO LEVELS INDICATED</b></p>	<p>Hemoglobin: 1000 mg/dL (155.0 µmol/L) Intralipid: 1000 mg/dL (3000 mg/dL (33.9 mmol/L) Simulated Triglycerides) Ascorbic Acid: 3000 µg/dL (170 µmol/L) Unconjugated Bilirubin: 16 mg/dL (serum) (273.6 µmol/L) 40 mg/dL (urine) (684 µmol/L) Conjugated Bilirubin: 40 mg/dL (684 µmol/L)</p>
<p><b>REFERENCE RANGE<sup>(1)</sup></b></p>	<p><b>SERUM/PLASMA:</b> Male: ≤1.2 mg/dL (≤104 µmol/L) Female: ≤1.0 mg/dL (≤84 µmol/L)</p> <p><b>URINE 1ST MORNING:</b> Male: 40-280 mg/dL (3500-25000 µmol/L) Female: 30-230 mg/dL (2600-20000 µmol/L)</p>

<sup>(1)</sup> Heil, W., Koberstein, R., Zawta, B. Reference Ranges for Adults and Children, Roche Diagnostics, Mannheim, 2002.

**NOTES:**

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