



# Teco Diagnostics

## Intended Use

Kinetic and Endpoint methods for the quantitative determination of creatinine in serum.

## Principle

Creatinine reacts with picric acid in alkaline conditions to form a color complex which absorbs at 510 nm. The rate of formation of color is proportional to the creatinine concentration in the sample. In the endpoint method the difference in absorbance measurements after color formation and after acidification yields a creatinine value corrected for interfering substances.

### Test:

Creatinine Reagent Set (Kinetic or manual endpoint) (C513-480)

### Number of Tests:

480 tests  
4 x 120 mL bottles

### Format:

Liquid

### Method:

Kinetic, Endpoint

### Testing Procedure:

Manual

### Storage Temperature:

15-30°C

### Wavelength:

510 nm

### Linearity:

25 mg/dL

### Expected Values:

Male serum: 0.9-1.5 mg/dL

Female serum: 0.7-1.37 mg/dL

It is strongly suggested that each laboratory establish its own range of expected values.

### Reagent Deterioration:

The reagent should be discarded if: (1) Turbidity has occurred; (2) The reagent fails to meet linearity claims or fails to recover control values in the stated range.

### Limitations of Procedure:

Albumin at a concentration of 10.0 mg/dL contributes to 0.2 mg/dL to the creatinine values

Moderate hemolysis (0.2 gm/dL Hgb), grossly icteric and lipemic samples will give elevated results.

Acetoacetate above 10mg/dL will interfere with the results.

## CONTACT US:

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