



# Teco Diagnostics

## Intended Use

For the quantitative determination of Creatine Kinase activity in human serum or plasma on TC Matrix analyzers.

## Principle

Creatine Kinase(CK) catalyzes the conversion of creatine phosphate and ADP to creatine and ATP. The ATP and glucose are converted to ADP and glucose-6-phosphate by hexokinase (HK). Glucose-6-phosphate dehydrogenase (G-6-PDH) oxidizes at the D-glucose-6-phosphate and reduces the NAD. The rate of NADH formation, measured at 340 nm, is directly proportional to CK activity in serum or plasma.

**Test:**

Creatine Kinase(CK-NAC) Liquid Reagent (C519-440TM)

**Number of Tests:**

440 tests

**Format:**

Liquid

**Method:**

Kinetic

**Testing Procedure:**

Automated

**Storage Temperature:**

2-8°C

**Wavelength:**

340 nm

**Linearity:**

10-1200 IU/L

**Expected Values:**

33-186 IU/L

**Limitation of Procedure:**

The anticoagulants Potassium Oxalate, Sodium Fluoride and Sodium Citrate were found to be incompatible with this method.

Samples showing evidence of hemolysis should not be used.

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