Teco Diagnostics

Test:
Creatine Kinase (CK-NAC) Reagent (C512-60)

Number of Tests:
60 tests
10 x 6 mL bottles

Format:
Powder

Method:
UV-Kinetic

Testing Procedure:
Manual

Storage Temperature:
2-8°C

Reconstituted Stability:
24 hours at 15-30°C
21 days at 2-8°C

Wavelength:
340 nm

Linearity:
1,200 IU/L

Expected Values:
25-192 IU/L at 37°C
10-109 IU/L at 30°C
It is strongly recommended that each laboratory establish its own normal range.

Reagent Deterioration:
The reagent should be discarded: (1) If reagent appears damp and clumped; (2) If the reconstituted CK reagent without added sample has an absorbance greater than 0.70 at 340 nm versus reagent grade water; (3) Failure to obtain accurate results in the assay of control materials

Limitations of Procedure:
Some inhibitors of CK activity: Excessive Mg^{++}, Cl^{-}, $SO4^{2-,}$ most heavy earth metals(Zn^{++}, Cu^{++}, Mn^{++}), iodoacetate and other sulfhydryl binding agents, excess ADP, citrate, fluoride, L-thyroxine, and excess uric acid; This procedure measures total CK activity irrespective of its tissue or organ of origin; Lower than expected CK values have been reported in samples having high alkaline phosphatase activity.

Intended Use
For the quantitative determination of Creatine Kinase in human serum.

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-phsophate 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 serum CK activity.

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