



Teco Diagnostics

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-phosphate by hexokinase (HK). Glucose-6-phosphate dehydrogenase (G-6-PDH) oxidizes at the D-glucose-6-phosphate and reduces the nicotinamide adenine dinucleotide(NAD). The rate of NADH formation, measured at 340 nm, is directly proportional to serum CK activity.

Test:

Creatine Kinase(CK-NAC) Liquid Reagent (C519-150)

Number of Tests:

150 tests

Format:

Liquid

Method:

UV-Kinetic

Testing Procedure:

Manual

Storage Temperature:

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:

Failure to obtain accurate results in the assay of control materials may indicate reagent deterioration.

Limitation of Procedure:

Some inhibitors of CK activity: Excessive Mg^{++} , Cl^- , SO_4^{2-} , most heavy earth metals(i.e. Zn^{++} , Cu^{++} , Mn^{++}), iodacetate 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.

CONTACT US:

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