

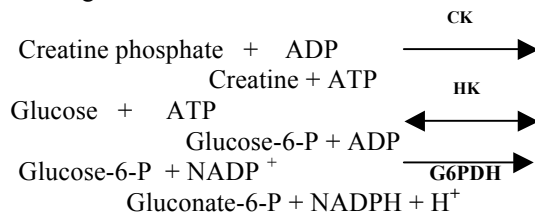


# CK- NAc

**Liquid Reagent**  
**Kinetic determination . IFCC**  
**Store at 2-8 °C**

## PRINCIPLE

Kinetic determination of the Creatine kinase activity based upon IFCC recommendations according to the following reaction:



## REFERENCE VALUES

	25°C	30°C	37°C
Men U/L	10-80	15-130	24-195
Women U/L	10-70	15-110	24-170

It is recommended that each laboratory should assign its own normal range.

## SAMPLES

Serum, heparinized plasma.  
Creatine Kinase in serum is stable for 7 days at 2-8°C.

## REAGENTS

### B:

Imidazol buffer	100 mmol/l
Glucose	20 mmol/l
Magnesium Acetate	10 mmol/l
EDTA	2.0 mmol/l

### A:

ADP	2.0 mmol/l
AMP	5.0 mmol/l
Diadenosine pentaphosphate	10 µmol/l
NADP	2 mmol/l
HK	≥ 3000 U/l
G <sub>6</sub> P – DH	≥ 2000U/l
N. Acetylcysteine	20 mmol/l
Creatine phosphate	30 mmol/l

## PREPARATION OF WORKING REAGENT

Reagent A and B are ready to use. If a monoreagent procedure is preferred then the reagent must be mixed in the ration 4 parts of A to 1 part of B. The working reagent is stable for one month at 2-8°C

## PROCEDURE

Wavelength	340 nm
Temperature	25 °C-30 °C-37 °C
Zero adjustment	Air or Distilled water
Cuvette	1 cm light path
Method	Kinetic - increasing

If the absorbance of the working reagent is higher than 1.2 at 334nm the reagent can not be use.

Sample	20 µ l
Working reagent	1.0 ml

Mix and after 2 minutes incubation, measure the optical density increase per minutes (ΔO.D./min) during 3 minutes.

## CALCULATION

(340 nm) (U/L) = ΔO.D./min X 8095

## LINEARITY

If ΔOD /min. exceeds 0.150 at 340 nm dilute serum 1/5 with 0.9 % of NaCl solution.

## SPECIFICITY

Bilirubin 0.5g/l, lipid 5g/l, glucose 10g/l and ascorbic acid 0.5g/l don't interfere with the essay at the given level.

## NOTES

Solution 1 contains sodium azid, avoid ingestion or contact with skin.

## PRESENTATION


50 + 10 ml      Cat No 1601      60 test

## BIBLIOGRAPHY

-Ann. Bio.Clin , 40, 87 (1982).  
-J. Clin. Chem. Biochem, 15, 249 (1977).

## The following symbols are used on labels

 **For in vitro diagnostic use**

 **Use day (last day of the month)**

 **Temperature limitation**

 **Batch code**

 **Code**