BIOBOON BIOTECH LLC

Innovative Diagnostics for a Healthier Tomorrow

Reliable Muscle Enzyme Testing for Better Care



CK-NAC Test Kit

Kinetic UV Method

Quantitative determination of CK-NAC in human Serum / Plasma / other body fluids.

Only for In Vitro Diagnostic Use.

TEST PRINCIPLE

Creatine kinase (CK) catalyses the reaction between creatine phosphate and ADP, producing creatine and ATP. The ATP and glucose are converted to ADP and glucose-6-phosphate by hexokinase. Glucose-6-phosphate dehydrogenase oxidises glucose-6-phosphate and reduces NAD to NADH. The rate of NADH formation at 340 nm is directly proportional to the CK activity in the sample.



Creatine Phosphate + ADP → Creatine + ATP (NADH at 340 nm)

KEY PARAMETERS (AUTOMATED)

Wavelength	340 nm
Cuvette	1 cm
Temperature	37°C
Reaction Type	Kinetic Test
Reaction Direction	Increasing
Sample Volume	20 µL
Reagent Volume	1000 µL
Delay Time	120 Secs
Read Interval	60 Secs
Units	IU/L

MANUAL ASSAY PROCEDURE

1. Add 1000 µL reagent into a test tube.
2. Add 20 µL sample and mix.
3. Incubate for 5 minutes at 37°C.
4. Measure absorbance at 340 nm.



SAMPLE TYPE



Serum | Plasma (Heparin / EDTA) | Other body fluids

REFERENCE VALUES (AT 37°C)

Low Normal	25 IU/L
High Normal	192 IU/L

STORAGE & STABILITY

- Store at 2–8°C.
- Do not freeze.
- Protect from light.
- Use before the expiry date on the label.

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