



Teco Diagnostics

Intended Use

CK-MB is intended to measure the activity of isoenzyme CK-MB in human serum.

Principle

CK-B catalyzes the reversible phosphorylation of ADP, in the presence of creatine phosphate, to form ATP and creatine. The auxiliary enzyme hexokinase (HK) catalyzes the phosphorylation of glucose by the ATP format, to produce ADP and glucose-6-phosphate (G-6-P) is oxidized to 6-phosphogluconate with the concomitant production of NADH. The rate of NADH formation, measured at 340 nm, is directly proportional to serum CK-B activity.

CONTACT US:

TECO DIAGNOSTICS

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Test:

Creatine Kinase-MB (CK-MB) Reagent Set (C614-60)

Number of Tests:

60 tests
10 x 6 mL bottles

Format:

Powder

Method:

UV-Kinetic

Testing Procedure:

Manual & automated

Storage Temperature:

2-8°C

Reconstituted Stability:

24 hours at 15-30°C
7 days at 2-8°C

Wavelength:

340 nm

Linearity:

1500 IU/L

Expected Values:

0-24 IU/L at 37°C
0-14 IU/L at 30°C

It is strongly recommended that each laboratory establish its own normal range.

Limitation of Procedure:

Extremely hemolyzed samples are not suitable for the test since they may contain high levels of adenylate kinase, ATP, and glucose-6-phosphate, which interfere with the assay to yield false results.

The procedure assumes that CK-BB activity in the sample is negligible. If a significant amount of CK-BB activity is present, then the CK-MB activity will also be overestimated.